



FCC SAR Test Report

Report No. : FA3O1303

Table with columns for device model (FR1 n70, FR1 n66), frequency, modulation, power, antenna, and SAR values. Includes a highlighted row with SAR value 1.273.

1900MHz

Table for 1900MHz band with columns for device model (GSM1900, WCDMA II), modulation, power, antenna, and SAR values. Includes a highlighted row with SAR value 1.275.



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Table with columns for Band, Power, Modulation, S.A./NSA, Frequency, Front/Back, Antenna, Power Density, SAR (1g/0.5g), and Specific Absorption Rate (SAR) values. Includes a highlighted cell with value 1.351.



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	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	DSI 3	376500	1882.5	1	16.31	17.00	1.172	-	-	0.02	0.763	0.894
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	DSI 3	376500	1882.5	1	16.26	17.00	1.186	-	-	-0.14	0.713	0.845
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	DSI 3	376500	1882.5	1	16.14	17.00	1.219	-	-	0.03	0.601	0.733
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	DSI 3	376500	1882.5	1	17.37	18.00	1.156	-	-	0.04	0.735	0.850
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 4	-	DSI 4	376500	1882.5	1	22.18	23.00	1.208	-	-	-0.04	0.175	0.211
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant 4	-	DSI 4	376500	1882.5	1	22.18	23.00	1.208	-	-	-0.08	0.162	0.196

2300MHz

	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	27710	2310	1	20.46	21.50	1.271	-	-	0.04	0.528	0.671
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	27710	2310	1	20.44	21.50	1.276	-	-	0.07	0.338	0.431
87	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	1	20.46	21.50	1.271	-	-	-0.06	0.982	1.248
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	27710	2310	1	17.49	18.50	1.262	-	-	0.04	0.305	0.385
	LTE Band 30 ENDC&UL CA	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	1	17.49	18.50	1.262	-	-	0.01	0.555	0.700
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	27710	2310	1	20.46	21.50	1.271	-	-	0.06	0.883	1.122
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	1	20.44	21.50	1.276	-	-	-0.15	0.629	0.803
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	1	20.37	21.50	1.297	-	-	-0.04	0.629	0.816
	LTE Band 30	10M	QPSK	1	0	-	Front	17mm	Ant 1	-	DSI 4	27710	2310	1	23.00	24.00	1.259	-	-	0.12	0.118	0.149
	LTE Band 30	10M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	27710	2310	1	23.00	24.00	1.259	-	-	0.03	0.104	0.131
	LTE Band 30 Other PA ENDC	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	27710	2310	1	12.43	13.00	1.140	-	-	0.12	0.164	0.187
	LTE Band 30 Other PA ENDC	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI 3	27710	2310	1	12.35	13.00	1.161	-	-	-0.09	0.156	0.181
	LTE Band 30 Other PA ENDC	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	27710	2310	1	12.43	13.00	1.140	-	-	0.09	0.216	0.246
	LTE Band 30 Other PA ENDC	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI 3	27710	2310	1	12.35	13.00	1.161	-	-	-0.04	0.374	0.434
	LTE Band 30 Other PA ENDC	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	27710	2310	1	12.32	13.00	1.169	-	-	0.13	0.168	0.196
	LTE Band 30 Other PA ENDC	10M	QPSK	1	0	-	Front	17mm	Ant 4	-	DSI 4	27710	2310	1	23.15	24.00	1.216	-	-	-0.08	0.252	0.306
	LTE Band 30 Other PA ENDC	10M	QPSK	1	0	-	Back	21mm	Ant 4	-	DSI 4	27710	2310	1	23.15	24.00	1.216	-	-	0.13	0.160	0.195
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	462000	2310	1	20.41	21.00	1.146	-	-	-0.03	0.638	0.731
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	462000	2310	1	20.36	21.00	1.159	-	-	0.13	0.671	0.778
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	462000	2310	1	20.27	21.00	1.183	-	-	-0.11	0.525	0.621
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	462000	2310	1	20.41	21.00	1.146	-	-	0.09	1.040	1.191
88	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	462000	2310	1	20.36	21.00	1.159	-	-	-0.02	1.050	1.217
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	462000	2310	1	17.24	18.00	1.191	-	-	0.11	0.370	0.441
	FR1 n30 ENDC	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	462000	2310	1	17.24	18.00	1.191	-	-	0.03	0.589	0.702
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	462000	2310	1	20.36	21.00	1.159	-	-	0.04	0.974	1.129
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	462000	2310	1	20.27	21.00	1.183	-	-	0.15	0.924	1.093
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	17mm	Ant 1	-	DSI 4	462000	2310	1	23.39	24.00	1.151	-	-	0.17	0.203	0.234
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	462000	2310	1	23.39	24.00	1.151	-	-	0.18	0.176	0.203

2600MHz

	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	1	18.84	20.00	1.306	-	-	-0.11	0.499	0.652
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	1	18.80	20.00	1.318	-	-	0.14	0.329	0.434
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	1	18.84	20.00	1.306	-	-	-0.13	0.901	1.177
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	1	18.75	20.00	1.334	-	-	0.05	0.866	1.155
89	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	1	18.82	20.00	1.312	-	-	0.07	0.923	1.211
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21350	2560	1	16.37	17.50	1.297	-	-	0.02	0.295	0.383
	LTE Band 7 ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	1	16.37	17.50	1.297	-	-	0.01	0.551	0.715
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	21350	2560	1	18.82	20.00	1.312	-	-	0.01	0.841	1.104
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	1	18.80	20.00	1.318	-	-	0.04	0.874	1.152
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	1	18.72	20.00	1.343	-	-	0.13	0.845	1.135
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	1	18.76	20.00	1.330	-	-	-0.05	0.823	1.095
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	1	18.78	20.00	1.324	-	-	-0.17	0.831	1.101
	LTE Band 7	20M	QPSK	1	0	-	Front	17mm	Ant 1	-	DSI 4	21100	2535	1	22.95	24.00	1.274	-	-	0.08	0.230	0.293
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	21350	2560	1	22.82	24.00	1.312	-	-	0.01	0.239	0.314
	LTE Band 7 Other PA ENDC	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	21100	2535	1	15.51	16.00	1.119	-	-	0.02	0.106	0.119
	LTE Band 7 Other PA ENDC	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	21100	2535	1	15.42	16.00	1.143	-	-	-0.02	0.083	0.095
	LTE Band 7 Other PA ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	21100	2535	1	15.51	16.00	1.119	-	-	0.06	0.336	0.376



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	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	518598	2592.99	1	22.95	24.00	1.274	-	-	0.08	0.222	0.283
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	518598	2592.99	1	25.92	27.00	1.282	50	1.000	0.03	0.231	0.296
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	-	DSI 3	518598	2592.99	1	16.68	17.50	1.208	-	-	0.18	0.378	0.457
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	-	DSI 3	518598	2592.99	1	16.65	17.50	1.216	-	-	-0.1	0.369	0.449
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	16.68	17.50	1.208	-	-	-0.02	0.704	0.850
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	16.65	17.50	1.216	-	-	-0.15	0.538	0.654
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	16.57	17.50	1.239	-	-	0.19	0.657	0.814
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	19.53	20.50	1.250	50	1.000	0.07	0.691	0.864
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 4	-	DSI 4	518598	2592.99	1	20.12	21.00	1.225	-	-	-0.17	0.097	0.119
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 4	-	DSI 4	518598	2592.99	1	20.12	21.00	1.225	-	-	-0.03	0.105	0.129
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 4	-	DSI 4	518598	2592.99	1	23.03	24.00	1.250	50	1.000	0.03	0.101	0.126
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	1	18.91	19.50	1.146	-	-	-0.18	0.059	0.068
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	1	18.86	19.50	1.159	-	-	0.03	0.049	0.057
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	1	18.91	19.50	1.146	-	-	-0.15	0.760	0.871
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	1	18.86	19.50	1.159	-	-	-0.07	0.774	0.897
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	2	18.86	19.50	1.159	-	-	0.03	0.749	0.868
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	1	18.71	19.50	1.199	-	-	-0.15	0.661	0.793
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	1	21.85	22.50	1.161	50	1.000	0.11	0.765	0.889
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 2	-	DSI 4	518598	2592.99	1	21.09	22.00	1.233	-	-	0.14	0.101	0.125
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	518598	2592.99	1	21.09	22.00	1.233	-	-	0.11	0.067	0.083
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 2	-	DSI 4	518598	2592.99	1	24.14	25.00	1.219	50	1.000	0.01	0.095	0.116
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	518598	2592.99	1	14.58	15.50	1.236	-	-	-0.08	0.258	0.319
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	518598	2592.99	1	14.49	15.50	1.262	-	-	-0.17	0.180	0.227
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	1	14.58	15.50	1.236	-	-	0.02	0.680	0.840
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	2	14.58	15.50	1.236	-	-	-0.01	0.535	0.661
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	1	14.49	15.50	1.262	-	-	-0.08	0.573	0.723
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	1	14.43	15.50	1.279	-	-	-0.04	0.577	0.738
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	1	17.59	18.50	1.233	50	1.000	-0.08	0.672	0.829
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 7	-	DSI 4	518598	2592.99	1	20.59	22.00	1.384	-	-	-0.05	0.098	0.136
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7	-	DSI 4	518598	2592.99	1	20.59	22.00	1.384	-	-	0.18	0.136	0.188
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7	-	DSI 4	518598	2592.99	1	23.63	25.00	1.371	50	1.000	0.07	0.123	0.169
3500MHz																						
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	DSI 3	55830	3609	1	18.99	20.00	1.262	62.9	1.006	0.17	0.332	0.421
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	DSI 3	55830	3609	1	19.00	20.00	1.259	62.9	1.006	-0.13	0.219	0.277
93	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	55830	3609	1	18.99	20.00	1.262	62.9	1.006	-0.01	0.706	0.896
	LTE Band 48 UL CA	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	55830+56028	3609+3628.8	1	18.85	20.00	1.303	62.9	1.006	0.07	0.675	0.885
	LTE Band 48 ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	55830	3609	1	16.52	17.00	1.117	62.9	1.006	0.01	0.400	0.449
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	55340	3560	1	19.03	20.00	1.250	62.9	1.006	0.08	0.673	0.846
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	56150	3641	1	19.05	20.00	1.245	62.9	1.006	-0.07	0.575	0.720
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	56640	3690	1	19.00	20.00	1.259	62.9	1.006	0.05	0.575	0.728
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	55830	3609	1	19.00	20.00	1.259	62.9	1.006	-0.11	0.692	0.876
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	55340	3560	1	18.97	20.00	1.268	62.9	1.006	-0.12	0.648	0.826
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	56150	3641	1	19.04	20.00	1.247	62.9	1.006	0.03	0.683	0.857
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	56640	3690	1	18.97	20.00	1.268	62.9	1.006	-0.16	0.677	0.863
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 5	-	DSI 3	55830	3609	1	18.87	20.00	1.297	62.9	1.006	-0.02	0.656	0.856
	LTE Band 48	20M	QPSK	1	0	-	Front	17mm	Ant 5	-	DSI 4	55830	3609	1	22.98	24.00	1.265	62.9	1.006	-0.04	0.180	0.229
	LTE Band 48	20M	QPSK	1	0	-	Back	21mm	Ant 5	-	DSI 4	55830	3609	1	22.98	24.00	1.265	62.9	1.006	-0.08	0.147	0.187
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	641666	3624.99	1	15.89	17.00	1.291	-	-	0.15	0.393	0.507
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	641666	3624.99	1	15.86	17.00	1.300	-	-	-0.09	0.384	0.499
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	641666	3624.99	1	15.89	17.00	1.291	-	-	-0.05	0.470	0.607
94	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	641666	3624.99	1	15.86	17.00	1.300	-	-	0.01	0.670	0.871
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	638000	3570	1	15.57	17.00	1.390	-	-	0.01	0.610	0.848
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	645332	3679.98	1	15.60	17.00	1.380	-	-	0.01	0.596	0.823
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	641666	3624.99	1	15.72	17.00	1.343	-	-	-0.08	0.452	0.607



FCC SAR Test Report

Report No. : FA3O1303

	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	641666	3624.99	1	22.83	24.00	1.309	-	-	0.01	0.304	0.398
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 5	-	DSI 4	641666	3624.99	1	22.83	24.00	1.309	-	-	-0.13	0.259	0.339
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	15.63	16.00	1.089	-	-	0.16	0.326	0.355
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	15.59	16.00	1.099	-	-	0.05	0.306	0.336
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	15.63	16.00	1.089	-	-	-0.03	0.532	0.579
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	15.59	16.00	1.099	-	-	0.07	0.683	0.751
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	12.59	13.00	1.099	-	-	0.03	0.173	0.190
	FR1 n77 ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	12.59	13.00	1.099	-	-	0.04	0.373	0.410
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	2	15.59	16.00	1.099	-	-	0.05	0.621	0.682
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	15.48	16.00	1.127	-	-	0.07	0.590	0.665
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	18.54	19.00	1.112	50	1.000	0.02	0.609	0.677
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	656000	3840	1	23.03	24.00	1.250	-	-	0.442	0.442	0.553
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 5	-	DSI 4	656000	3840	1	23.03	24.00	1.250	-	-	0.336	0.336	0.420
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	656000	3840	1	25.97	27.00	1.268	50	1.000	0.413	0.413	0.524
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633332	3499.98	1	15.10	16.00	1.230	-	-	0.07	0.392	0.482
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633332	3499.98	1	15.08	16.00	1.236	-	-	0.16	0.379	0.468
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	1	15.10	16.00	1.230	-	-	-0.18	0.641	0.789
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	1	15.08	16.00	1.236	-	-	0.02	0.654	0.808
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	1	14.95	16.00	1.274	-	-	0.05	0.711	0.905
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633332	3499.98	1	11.95	13.00	1.274	-	-	0.02	0.192	0.245
	FR1 n77 ENDC	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	1	11.95	13.00	1.274	-	-	0.04	0.351	0.447
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	2	14.95	16.00	1.274	-	-	-0.03	0.641	0.816
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633332	3499.98	1	18.01	19.00	1.256	50	1.000	0.16	0.704	0.884
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	633332	3499.98	1	22.68	24.00	1.355	-	-	0.17	0.465	0.630
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 5	-	DSI 4	633332	3499.98	1	22.68	24.00	1.355	-	-	-0.05	0.361	0.489
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	633332	3499.98	1	25.62	27.00	1.374	50	1.000	0.06	0.423	0.581
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	656000	3840	1	14.53	16.00	1.403	-	-	-0.03	0.105	0.147
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	656000	3840	1	14.45	16.00	1.429	-	-	0.07	0.126	0.180
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	14.53	16.00	1.403	-	-	0	0.657	0.922
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	14.45	16.00	1.429	-	-	0.01	0.947	1.353
95	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	14.34	16.00	1.466	-	-	-0.02	0.950	1.392
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	656000	3840	2	14.34	16.00	1.466	-	-	0.07	0.868	1.272
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	Headset	DSI 3	656000	3840	1	14.34	16.00	1.466	-	-	0.03	0.889	1.303
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	17.35	19.00	1.462	50	1.000	-0.01	0.951	1.391
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 1	-	DSI 4	656000	3840	1	19.41	21.00	1.442	-	-	-0.13	0.145	0.209
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	656000	3840	1	19.41	21.00	1.442	-	-	0.06	0.155	0.224
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	656000	3840	1	22.34	24.00	1.466	50	1.000	0.03	0.139	0.204
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	633332	3499.98	1	15.57	16.00	1.104	-	-	-0.06	0.139	0.153
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	633332	3499.98	1	15.54	16.00	1.112	-	-	-0.04	0.116	0.129
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	633332	3499.98	1	15.57	16.00	1.104	-	-	-0.09	0.263	0.290
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	633332	3499.98	1	15.54	16.00	1.112	-	-	-0.17	0.307	0.341
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	633332	3499.98	1	18.47	19.00	1.130	50	1.000	0.18	0.286	0.323
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 1	-	DSI 4	633332	3499.98	1	20.47	21.00	1.130	-	-	-0.03	0.119	0.134
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 1	-	DSI 4	633332	3499.98	1	20.47	21.00	1.130	-	-	-0.03	0.091	0.103
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 1	-	DSI 4	633332	3499.98	1	23.39	24.00	1.151	50	1.000	0.01	0.108	0.124
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	656000	3840	1	14.32	14.50	1.042	-	-	-0.04	0.027	0.028
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	656000	3840	1	14.20	14.50	1.072	-	-	-0.05	0.022	0.024
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	14.32	14.50	1.042	-	-	0	0.569	0.593
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	14.20	14.50	1.072	-	-	-0.13	0.628	0.673
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	14.10	14.50	1.096	-	-	-0.04	0.821	0.900
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	2	14.10	14.50	1.096	-	-	0.09	0.695	0.762
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	17.04	17.50	1.112	50	1.000	-0.01	0.732	0.814
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 2	-	DSI 4	656000	3840	1	15.41	16.50	1.285	-	-	0.08	0.121	0.156
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	656000	3840	1	15.41	16.50	1.285	-	-	-0.07	0.185	0.238
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 2	-	DSI 4	656000	3840	1	18.40	19.50	1.288	50	1.000	0.04	0.169	0.218



FCC SAR Test Report

Report No. : FA3O1303

Table with columns for device ID, power, modulation, frequency, antenna, distance, SAR values, etc. Row 96 is highlighted with a yellow background.



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
2450MHz																			
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Standalone	6	2437	1	16.87	18.50	1.455	99.36	1.006	-0.18	0.394	0.577	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	1	16.87	18.50	1.455	99.36	1.006	0.12	0.789	1.155	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	16.77	18.50	1.489	99.36	1.006	-0.03	0.767	1.149	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Headset	Standalone	11	2462	1	16.77	18.50	1.489	99.36	1.006	0.02	0.753	1.128	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	1	2412	1	16.57	18.50	1.560	99.36	1.006	0.05	0.733	1.150	
97	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 6	-	Standalone	1	2412	1	16.78	18.50	1.486	98.27	1.018	0.01	0.881	1.333	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	1	16.77	18.50	1.489	98.27	1.018	0.04	0.788	1.195	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	16.65	18.00	1.365	98.27	1.018	0.01	0.727	1.010	
	WLAN2.4GHz	802.11g 6Mbps	Front	5mm	Ant 6	-	Simultaneous	1	2412	1	12.41	14.00	1.442	98.27	1.018	0.11	0.144	0.211	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 6	-	Simultaneous	1	2412	1	12.41	14.00	1.442	98.27	1.018	0.05	0.295	0.433	
	WLAN2.4GHz	802.11b 1Mbps	Front	17mm	Ant 6	-	Full Power	6	2437	1	20.44	22.00	1.432	99.36	1.006	0.03	0.143	0.206	
	WLAN2.4GHz	802.11g 6Mbps	Back	21mm	Ant 6	-	Full Power	1	2412	1	20.35	22.00	1.462	98.27	1.018	0.01	0.146	0.217	
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Standalone	39	2441	1	14.74	16.00	1.337	76.99	1.082	-0.05	0.183	0.265	
98	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Standalone	39	2441	1	14.74	16.00	1.337	76.99	1.082	0.01	0.335	0.484	
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Simultaneous	39	2441	1	12.84	14.00	1.306	76.99	1.082	0.02	0.127	0.179	
	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Simultaneous	39	2441	1	12.84	14.00	1.306	76.99	1.082	0.01	0.214	0.302	
	Bluetooth	1Mbps	Front	17mm	Ant 6	-	Full Power	39	2441	1	14.74	16.00	1.337	76.99	1.082	0.02	0.101	0.146	
	Bluetooth	1Mbps	Back	21mm	Ant 6	-	Full Power	39	2441	1	14.74	16.00	1.337	76.99	1.082	0.09	0.093	0.134	
5000MHz																			
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	58	5290	1	12.33	14.00	1.469	92.71	1.079	0.18	0.186	0.295	
99	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	58	5290	1	12.33	14.00	1.469	92.71	1.079	0.19	0.676	1.071	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	58	5290	1	7.41	9.00	1.442	92.71	1.079	0.03	0.074	0.115	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	58	5290	1	7.41	9.00	1.442	92.71	1.079	0.01	0.245	0.381	
	WLAN5.3GHz	802.11a 6Mbps	Front	17mm	Ant 6	-	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	0.06	0.217	0.318	
	WLAN5.3GHz	802.11a 6Mbps	Back	21mm	Ant 6	-	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	0.07	0.517	0.758	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	122	5610	1	14.67	16.50	1.524	92.71	1.079	0.11	0.125	0.206	
100	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	122	5610	1	14.67	16.50	1.524	92.71	1.079	0.06	0.641	1.054	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	106	5530	1	14.60	16.50	1.549	92.71	1.079	-0.17	0.594	0.993	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	122	5610	1	10.75	12.50	1.496	92.71	1.079	0.08	0.052	0.084	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	122	5610	1	10.75	12.50	1.496	92.71	1.079	0.01	0.208	0.336	
	WLAN5.5GHz	802.11a 6Mbps	Front	17mm	Ant 6	-	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	0.09	0.225	0.301	
	WLAN5.5GHz	802.11a 6Mbps	Back	21mm	Ant 6	-	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	0.04	0.530	0.710	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	155	5775	1	13.69	15.00	1.352	92.71	1.079	-0.04	0.116	0.169	
101	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	155	5775	1	13.69	15.00	1.352	92.71	1.079	-0.08	0.805	1.174	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	155	5775	2	13.69	15.00	1.352	92.71	1.079	0.01	0.638	0.931	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	155	5775	1	7.54	9.00	1.400	92.71	1.079	0.09	0.040	0.060	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	155	5775	1	7.54	9.00	1.400	92.71	1.079	0.04	0.243	0.367	
	WLAN5.8GHz	802.11a 6Mbps	Front	17mm	Ant 6	-	Full Power	157	5785	1	19.73	21.00	1.341	92.71	1.079	0.08	0.207	0.299	
	WLAN5.8GHz	802.11a 6Mbps	Back	21mm	Ant 6	-	Full Power	157	5785	1	19.73	21.00	1.341	92.71	1.079	0.01	0.519	0.751	



15.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
750MHz																					
102	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	22.98	24.00	1.265	-	-	0.07	2.290	2.896
	LTE Band 13 ENDC&UL CA	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	22.63	23.50	1.222	-	-	0.07	1.470	1.796
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	21.88	23.00	1.294	-	-	-0.01	1.300	1.682
	LTE Band 13	10M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	21.81	23.00	1.315	-	-	-0.06	1.330	1.749
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	1	22.98	24.00	1.265	-	-	-0.04	1.440	1.821
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	1	21.88	23.00	1.294	-	-	-0.09	1.200	1.553
	LTE Band 13 Main PA -1	10M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	21.85	23.00	1.303	-	-	-0.1	0.320	0.417
	LTE Band 13	10M	QPSK	1	0	-	Back	20mm	Ant 0	DSI 4	23230	782	1	22.98	24.00	1.265	-	-	0.01	0.295	0.373
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	18mm	Ant 0	DSI 4	23230	782	1	22.98	24.00	1.265	-	-	0.04	0.066	0.083
103	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23330	793	1	23.01	24.00	1.256	-	-	0.02	2.460	3.090
	LTE Band 14 ENDC&UL CA	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23330	793	1	21.60	22.50	1.230	-	-	0.05	1.420	1.747
	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23330	793	2	23.01	24.00	1.256	-	-	0.02	1.930	2.424
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	23330	793	1	21.85	23.00	1.303	-	-	-0.14	1.340	1.746
	LTE Band 14	10M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	23330	793	1	21.82	23.00	1.312	-	-	-0.19	1.560	2.047
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	1	23.01	24.00	1.256	-	-	0.01	2.100	2.638
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	1	21.85	23.00	1.303	-	-	0.06	1.150	1.499
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	1	21.82	23.00	1.312	-	-	0.02	1.180	1.548
	LTE Band 14 Main PA -1	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23330	793	1	23.02	24.00	1.253	-	-	0.12	0.711	0.891
	LTE Band 14	10M	QPSK	1	0	-	Back	20mm	Ant 0	DSI 4	23330	793	1	23.01	24.00	1.256	-	-	0.01	0.243	0.305
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	18mm	Ant 0	DSI 4	23330	793	1	23.01	24.00	1.256	-	-	0.05	0.010	0.013
835MHz																					
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	0mm	Ant 0	DSI 6	189	836.4	1	31.10	32.00	1.230	-	-	0.12	1.400	1.722
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	0mm	Ant 0	DSI 6	128	824.2	1	31.07	32.00	1.239	-	-	0.02	0.996	1.234
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	0mm	Ant 0	DSI 6	251	848.8	1	30.95	32.00	1.274	-	-	-0.03	1.290	1.643
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	1	31.10	32.00	1.230	-	-	-0.06	1.530	1.882
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	128	824.2	1	31.07	32.00	1.239	-	-	-0.1	0.535	0.663
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	251	848.8	1	30.95	32.00	1.274	-	-	0.05	1.100	1.401
104	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	189	836.4	1	31.10	32.00	1.230	-	-	0.06	2.320	2.854
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	128	824.2	1	31.07	32.00	1.239	-	-	0.09	1.080	1.338
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	251	848.8	1	30.95	32.00	1.274	-	-	0.07	2.150	2.738
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	1	23.00	24.00	1.259	-	-	0.09	1.340	1.687
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4182	836.4	1	23.00	24.00	1.259	-	-	0.04	1.590	2.002
105	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4132	826.4	1	22.96	24.00	1.271	-	-	0.09	1.900	2.414
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4233	846.6	1	22.98	24.00	1.265	-	-	0.11	1.710	2.163
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	1	22.80	24.00	1.318	-	-	0.01	2.090	2.755
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	1	21.64	23.00	1.368	-	-	0.02	1.390	1.901
	LTE Band 26	15M	QPSK	75	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	1	21.34	23.00	1.466	-	-	-0.11	1.280	1.876
106	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	22.80	24.00	1.318	-	-	0.02	2.480	3.269
	LTE Band 5B	10M	QPSK	1	49	-	Bottom Side	0mm	Ant 0	DSI 6	20475+ 20574	831.5+ 841.4	1	22.75	24.00	1.334	-	-	0.09	2.230	2.974
	LTE Band 26 ENDC&UL CA	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	21.37	22.50	1.297	-	-	-0.06	1.310	1.699
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	2	22.80	24.00	1.318	-	-	0.02	2.180	2.874
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	21.64	23.00	1.368	-	-	-0.01	1.340	1.833
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	21.34	23.00	1.466	-	-	0.09	1.330	1.949
	LTE Band 26 Main PA -1	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	23.36	24.00	1.159	-	-	0.1	0.995	1.153
	LTE Band 26	15M	QPSK	1	0	-	Back	20mm	Ant 0	DSI 4	26865	831.5	1	22.80	24.00	1.318	-	-	-0.17	0.184	0.243
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	18mm	Ant 0	DSI 4	26865	831.5	1	22.80	24.00	1.318	-	-	-0.03	0.080	0.105
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	166300	831.5	1	23.17	24.00	1.211	-	-	0.06	0.921	1.115
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	166300	831.5	1	23.15	24.00	1.216	-	-	-0.06	0.775	0.943



FCC SAR Test Report

Report No. : FA301303

	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	166300	831.5	1	23.17	24.00	1.211	-	-	-0.15	1.070	1.295
107	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	166300	831.5	1	23.15	24.00	1.216	-	-	0.09	1.110	1.350
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	1	21.31	22.50	1.315	-	-	-0.06	2.180	2.867
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1312	1712.4	1	21.29	22.50	1.321	-	-	-0.13	1.880	2.484
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1513	1752.6	1	21.25	22.50	1.334	-	-	-0.01	1.980	2.640
108	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	1	21.31	22.50	1.315	-	-	0.02	2.620	3.446
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1312	1712.4	1	21.29	22.50	1.321	-	-	-0.11	2.400	3.171
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1513	1752.6	1	21.25	22.50	1.334	-	-	0.19	2.460	3.280
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	1	21.31	22.50	1.315	-	-	-0.14	2.200	2.893
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	1	21.29	22.50	1.321	-	-	-0.18	2.050	2.709
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	1	21.25	22.50	1.334	-	-	-0.06	2.280	3.040
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	DSI 4	1413	1732.6	1	22.85	24.00	1.303	-	-	0.1	0.403	0.525
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 0	DSI 4	1413	1732.6	1	22.85	24.00	1.303	-	-	0.12	0.304	0.396
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	18mm	Ant 0	DSI 4	1413	1732.6	1	22.85	24.00	1.303	-	-	0.08	0.471	0.614
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	1	21.11	22.50	1.377	-	-	-0.08	1.800	2.479
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132072	1720	1	21.04	22.50	1.400	-	-	-0.13	1.710	2.393
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132572	1770	1	20.95	22.50	1.429	-	-	0.01	1.830	2.615
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	1	21.07	22.50	1.390	-	-	-0.11	1.740	2.419
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132072	1720	1	20.97	22.50	1.422	-	-	0.03	1.690	2.404
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132572	1770	1	20.98	22.50	1.419	-	-	-0.05	1.670	2.370
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	1	21.01	22.50	1.409	-	-	0.14	1.020	1.437
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	21.11	22.50	1.377	-	-	-0.01	1.910	2.630
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	1	21.04	22.50	1.400	-	-	-0.12	1.950	2.729
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	1	20.95	22.50	1.429	-	-	0.07	1.990	2.843
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	21.07	22.50	1.390	-	-	0.09	1.780	2.474
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	1	20.97	22.50	1.422	-	-	0.04	1.750	2.489
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	1	20.98	22.50	1.419	-	-	0.11	1.610	2.285
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	21.01	22.50	1.409	-	-	-0.13	1.140	1.607
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	21.11	22.50	1.377	-	-	0.12	2.340	3.223
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	21.04	22.50	1.400	-	-	-0.11	2.110	2.953
109	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	20.95	22.50	1.429	-	-	0.09	2.510	3.587
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572+132374	1770+1750.2	1	20.83	22.50	1.469	-	-	-0.05	2.330	3.423
	LTE Band 66C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	132072+132270	1720+1739.8	1	20.83	22.50	1.469	-	-	0.03	2.240	3.290
	LTE Band 66C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	132322+132520	1745+1764.8	1	20.83	22.50	1.469	-	-	0.01	2.150	3.158
	LTE Band 66 ENDC&UL_CA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	18.14	19.50	1.368	-	-	-0.07	1.284	1.756
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	21.07	22.50	1.390	-	-	0.17	1.940	2.697
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	20.97	22.50	1.422	-	-	-0.16	2.020	2.873
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	20.98	22.50	1.419	-	-	-0.17	1.950	2.767
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	21.01	22.50	1.409	-	-	0.11	1.250	1.762
	LTE Band 66 Main PA -1	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	21.24	22.50	1.337	-	-	-0.05	2.620	3.502
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	20.68	21.50	1.208	-	-	-0.01	1.870	2.259
	LTE Band 66 Other PA-1	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	20.57	21.50	1.239	-	-	-0.14	1.800	2.230
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	DSI 4	132572	1770	1	22.76	24.00	1.330	-	-	-0.08	0.365	0.486
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 0	DSI 4	132572	1770	1	22.76	24.00	1.330	-	-	0.1	0.300	0.399
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	18mm	Ant 0	DSI 4	132572	1770	1	22.76	24.00	1.330	-	-	-0.18	0.468	0.623
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	132322	1745	1	21.21	22.50	1.346	-	-	-0.14	1.730	2.328
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	132072	1720	1	21.14	22.50	1.368	-	-	0.06	1.820	2.489
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	132572	1770	1	21.19	22.50	1.352	-	-	-0.06	1.800	2.434
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	132322	1745	1	20.81	22.00	1.315	-	-	-0.15	1.740	2.288
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	132072	1720	1	20.78	22.00	1.324	-	-	-0.12	1.690	2.238
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	132572	1770	1	20.71	22.00	1.346	-	-	-0.16	1.720	2.315
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 4	DSI 6	132322	1745	1	20.67	22.00	1.358	-	-	-0.03	1.010	1.372
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132322	1745	1	21.21	22.50	1.346	-	-	0.17	1.930	2.598



FCC SAR Test Report

Report No. : FA3O1303

	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	21.14	22.50	1.368	-	-	0.06	1.970	2.694
	LTE Band 66C	20M	QPSK	1	99	-	Top Side	0mm	Ant 4	DSI 6	132072+ 132270	1720+ 1739.8	1	21.06	22.50	1.393	-	-	0.09	1.810	2.522
	LTE Band 66 UL CA	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	132072	1720	1	19.56	21.00	1.393	-	-	0.06	1.190	1.658
	LTE Band 66 UL CA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	19.56	21.00	1.393	-	-	0.01	1.210	1.686
	LTE Band 66 ENDC	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	18.65	20.00	1.365	-	-	0.08	1.010	1.378
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	2	21.14	22.50	1.368	-	-	0.01	1.860	2.544
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132572	1770	1	21.19	22.50	1.352	-	-	0.02	1.940	2.623
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	132322	1745	1	20.81	22.00	1.315	-	-	0	1.780	2.341
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	20.78	22.00	1.324	-	-	0.18	1.850	2.450
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	132572	1770	1	20.71	22.00	1.346	-	-	-0.11	1.810	2.436
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 6	132322	1745	1	20.67	22.00	1.358	-	-	-0.05	1.160	1.576
	LTE Band 66 Main PA -1	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	20.93	22.50	1.435	-	-	-0.04	1.820	2.613
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	22.73	23.50	1.194	-	-	-0.08	1.890	2.257
	LTE Band 66 Other PA-1	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	132072	1720	1	22.67	23.50	1.211	-	-	0	1.840	2.228
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 4	132072	1720	1	21.72	23.00	1.343	-	-	0.14	0.206	0.277
	LTE Band 66	20M	QPSK	1	0	-	Top Side	15mm	Ant 4	DSI 4	132072	1720	1	21.72	23.00	1.343	-	-	0.11	0.272	0.365
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	340500	1702.5	1	21.09	22.50	1.384	-	-	-0.13	1.770	2.449
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	-0.1	1.640	2.290
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	-0.07	1.390	1.941
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	340500	1702.5	1	21.09	22.50	1.384	-	-	0.11	2.550	3.528
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	-0.17	2.280	3.184
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	0.01	1.780	2.486
110	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	1	21.09	22.50	1.384	-	-	-0.05	2.590	3.583
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	2	21.09	22.50	1.384	-	-	0.01	2.500	3.459
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	0.1	2.470	3.449
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	1	21.05	22.50	1.396	-	-	0.11	1.970	2.751
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	DSI 4	340500	1702.5	1	22.59	24.00	1.384	-	-	-0.05	0.252	0.349
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 0	DSI 4	340500	1702.5	1	22.59	24.00	1.384	-	-	0.18	0.175	0.242
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	18mm	Ant 0	DSI 4	340500	1702.5	1	22.59	24.00	1.384	-	-	0.14	0.257	0.356
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 4	DSI 6	340500	1702.5	1	20.17	21.50	1.358	-	-	0.07	1.030	1.399
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	0mm	Ant 4	DSI 6	340500	1702.5	1	20.02	21.50	1.406	-	-	-0.04	1.000	1.406
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	DSI 6	340500	1702.5	1	20.17	21.50	1.358	-	-	-0.18	1.130	1.535
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 4	DSI 6	340500	1702.5	1	20.02	21.50	1.406	-	-	-0.13	1.060	1.490
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	340500	1702.5	1	20.17	21.50	1.358	-	-	0.01	1.960	2.662
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	340500	1702.5	1	20.02	21.50	1.406	-	-	0	1.820	2.559
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	340500	1702.5	1	19.99	21.50	1.416	-	-	-0.04	1.380	1.954
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	9mm	Ant 4	DSI 4	340500	1702.5	1	21.65	23.00	1.365	-	-	-0.17	0.300	0.409
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 4	340500	1702.5	1	21.65	23.00	1.365	-	-	0.17	0.181	0.247
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	15mm	Ant 4	DSI 4	340500	1702.5	1	21.65	23.00	1.365	-	-	-0.05	0.257	0.351
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	1	20.95	22.00	1.274	-	-	-0.05	1.600	2.038
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	1	20.82	22.00	1.312	-	-	-0.04	1.750	2.296
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	1	20.75	22.00	1.334	-	-	0.03	1.660	2.214
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	1	20.95	22.00	1.274	-	-	0.03	1.740	2.216
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	1	20.82	22.00	1.312	-	-	0.16	2.050	2.690
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	1	20.75	22.00	1.334	-	-	0.01	1.740	2.320
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.95	22.00	1.274	-	-	-0.06	2.480	3.158
111	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.82	22.00	1.312	-	-	0.03	2.540	3.333
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.75	22.00	1.334	-	-	0.14	2.100	2.800
	FR1 n66 Main PA -1	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.74	22.00	1.337	-	-	-0.09	2.360	3.154
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.26	21.00	1.186	-	-	-0.09	2.150	2.549
	FR1 n66 Other PA-1	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	20.27	21.00	1.183	-	-	-0.12	2.260	2.674
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	DSI 4	349000	1745	1	22.93	24.00	1.279	-	-	0.01	0.278	0.356
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 0	DSI 4	349000	1745	1	22.93	24.00	1.279	-	-	0.1	0.210	0.269



FCC SAR Test Report

Report No. : FA3O1303

Table with columns for test parameters (FR1 n66, 40M, QPSK, etc.) and SAR results. Includes a 1900MHz section with GSM1900 and WCDMA II tests. Specific rows are highlighted in yellow (e.g., 112, 113, 114).



FCC SAR Test Report

Report No. : FA301303

	Other PA																				
	LTE Band 25 Other PA-1	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	1	18.61	19.50	1.227	-	-	0.12	0.980	1.203
	LTE Band 2 Main PA-1	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	20.40	21.00	1.148	-	-	0.07	2.810	3.226
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 0	DSI 4	26140	1860	1	22.69	24.00	1.352	-	-	0.03	0.225	0.304
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 0	DSI 4	26590	1905	1	22.72	24.00	1.343	-	-	-0.15	0.433	0.581
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	18mm	Ant 0	DSI 4	26590	1905	1	22.72	24.00	1.343	-	-	-0.15	0.794	1.066
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	26340	1880	1	19.29	20.00	1.178	-	-	0.12	0.985	1.160
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	26340	1880	1	19.26	20.00	1.186	-	-	-0.04	0.577	0.684
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 4	DSI 6	26340	1880	1	19.22	20.00	1.197	-	-	0.13	0.577	0.691
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26340	1880	1	19.29	20.00	1.178	-	-	0.09	1.950	2.296
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26140	1860	1	19.25	20.00	1.189	-	-	-0.03	1.679	1.995
	LTE Band 25 band2 for CA &ENDC band25 for ENDC	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26590	1905	1	19.15	20.00	1.216	-	-	0.09	2.170	2.639
	LTE Band 2 UL CA	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	18900	1880	1	17.37	18.00	1.156	-	-	0.01	0.703	0.813
	LTE Band 2 UL CA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	18900	1880	1	17.37	18.00	1.156	-	-	0.01	1.130	1.306
	LTE Band 25 ENDC	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26590	1905	1	16.15	17.00	1.216	-	-	0.08	1.093	1.329
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	26340	1880	1	19.26	20.00	1.186	-	-	0.06	1.154	1.368
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 6	26340	1880	1	19.22	20.00	1.197	-	-	0.06	1.149	1.375
	LTE Band 25 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26340	1880	1	21.13	22.00	1.222	-	-	0.01	2.040	2.492
	LTE Band 25 Other PA-1	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26340	1880	1	21.12	22.00	1.225	-	-	-0.11	2.000	2.449
	LTE Band 2 Main PA-1	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	18900	1880	1	19.71	20.00	1.069	-	-	-0.11	2.440	2.608
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	18900	1880	2	19.71	20.00	1.069	-	-	0.05	1.630	1.743
	LTE Band 25	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 4	26340	1880	1	21.20	22.00	1.202	-	-	0.11	0.206	0.248
	LTE Band 25	20M	QPSK	1	0	-	Top Side	15mm	Ant 4	DSI 4	26340	1880	1	21.20	22.00	1.202	-	-	-0.08	0.321	0.386
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	1	21.37	22.00	1.156	-	-	0.03	1.710	1.977
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	1	21.35	22.00	1.161	-	-	0.04	2.090	2.427
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	1	21.26	22.00	1.186	-	-	-0.09	1.760	2.087
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376500	1882.5	1	21.37	22.00	1.156	-	-	0	1.420	1.642
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376500	1882.5	1	21.35	22.00	1.161	-	-	0.11	1.510	1.754
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376500	1882.5	1	21.26	22.00	1.186	-	-	0.14	1.260	1.494
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	1	21.37	22.00	1.156	-	-	-0.15	2.310	2.671
115	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	1	21.35	22.00	1.161	-	-	0.06	2.340	2.718
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	1	21.26	22.00	1.186	-	-	0.02	2.010	2.383
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	1	19.75	21.00	1.334	-	-	-0.03	1.990	2.654
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	DSI 4	376500	1882.5	1	23.42	24.00	1.143	-	-	-0.17	0.341	0.390
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 0	DSI 4	376500	1882.5	1	23.42	24.00	1.143	-	-	-0.08	0.351	0.401
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	18mm	Ant 0	DSI 4	376500	1882.5	1	23.42	24.00	1.143	-	-	-0.04	0.530	0.606
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	DSI 6	376500	1882.5	1	18.57	19.50	1.239	-	-	-0.13	0.850	1.053
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 4	DSI 6	376500	1882.5	1	18.51	19.50	1.256	-	-	-0.03	0.810	1.017
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 4	DSI 6	376500	1882.5	1	18.41	19.50	1.285	-	-	0.02	0.660	0.848
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	376500	1882.5	1	18.57	19.50	1.239	-	-	0.02	1.790	2.217
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	376500	1882.5	1	18.51	19.50	1.256	-	-	0.11	1.410	1.771
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	376500	1882.5	1	18.41	19.50	1.285	-	-	-0.17	1.150	1.478
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	DSI 6	376500	1882.5	1	19.82	20.50	1.169	-	-	0.05	1.880	2.199
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 4	376500	1882.5	1	22.18	23.00	1.208	-	-	-0.08	0.182	0.220
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	15mm	Ant 4	DSI 4	376500	1882.5	1	22.18	23.00	1.208	-	-	0.17	0.298	0.360
2300MHz																					
116	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	1	22.50	23.50	1.259	-	-	-0.05	2.430	3.059
	LTE Band 30 ENDC	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	1	20.18	21.00	1.208	-	-	-0.09	1.470	1.775
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	2	22.50	23.50	1.259	-	-	0.02	2.390	3.009
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	1	21.59	23.00	1.384	-	-	-0.17	1.530	2.117



FCC SAR Test Report

Report No. : FA3O1303

	LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	1	21.50	23.00	1.413	-	-	-0.1	1.520	2.147
	LTE Band 30	10M	QPSK	1	0	-	Back	17mm	Ant 1	DSI 4	27710	2310	1	23.00	24.00	1.259	-	-	-0.01	0.076	0.096
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Front	0mm	Ant 4	DSI 6	27710	2310	1	16.41	18.00	1.442	-	-	-0.18	0.549	0.792
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Front	0mm	Ant 4	DSI 6	27710	2310	1	16.35	18.00	1.462	-	-	0.06	0.524	0.766
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	27710	2310	1	16.41	18.00	1.442	-	-	-0.19	0.796	1.148
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Back	0mm	Ant 4	DSI 6	27710	2310	1	16.35	18.00	1.462	-	-	0.17	0.736	1.076
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	27710	2310	1	16.41	18.00	1.442	-	-	0.07	1.020	1.471
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	27710	2310	2	16.41	18.00	1.442	-	-	0.01	0.996	1.436
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Top Side	0mm	Ant 4	DSI 6	27710	2310	1	16.35	18.00	1.462	-	-	-0.08	0.851	1.244
	LTE Band 30 Other PA	10M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	27710	2310	1	16.26	18.00	1.493	-	-	0.03	0.493	0.736
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Front	9mm	Ant 4	DSI 4	27710	2310	1	23.15	24.00	1.216	-	-	0.19	0.337	0.410
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 4	27710	2310	1	23.15	24.00	1.216	-	-	0.07	0.208	0.253
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Top Side	15mm	Ant 4	DSI 4	27710	2310	1	23.15	24.00	1.216	-	-	-0.18	0.434	0.528
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	462000	2310	1	21.92	22.50	1.143	-	-	-0.03	1.790	2.046
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	462000	2310	1	21.88	22.50	1.153	-	-	0.03	1.910	2.203
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	462000	2310	1	21.66	22.50	1.213	-	-	0.1	1.530	1.856
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	1	21.92	22.50	1.143	-	-	0.03	2.450	2.800
117	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	1	21.88	22.50	1.153	-	-	-0.01	2.570	2.964
	FR1 n30 ENDC	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	1	19.43	20.00	1.140	-	-	0.05	1.510	1.722
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	1	21.66	22.50	1.213	-	-	0.06	2.010	2.439
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	462000	2310	1	21.92	22.50	1.143	-	-	0.12	2.020	2.309
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	462000	2310	1	21.88	22.50	1.153	-	-	-0.03	2.140	2.468
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	462000	2310	1	21.66	22.50	1.213	-	-	0.11	1.640	1.990
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 6	462000	2310	1	21.92	22.50	1.143	-	-	0.08	1.480	1.691
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 6	462000	2310	1	21.88	22.50	1.153	-	-	0.07	1.520	1.753
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	7mm	Ant 1	DSI 4	462000	2310	1	23.39	24.00	1.151	-	-	0.04	0.385	0.443
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 1	DSI 4	462000	2310	1	23.39	24.00	1.151	-	-	-0.01	0.165	0.190
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	12mm	Ant 1	DSI 4	462000	2310	230	23.39	24.00	1.151	-	-	-0.08	0.199	0.229
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	11mm	Ant 1	DSI 4	462000	2310	1	23.39	24.00	1.151	-	-	0.05	0.229	0.264
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	1	21.09	22.00	1.233	-	-	0	2.440	3.009
118	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	1	21.02	22.00	1.253	-	-	0.04	2.630	3.296
	LTE Band 7 ENDC	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	1	18.81	19.50	1.172	-	-	0.04	1.490	1.747
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	2	21.02	22.00	1.253	-	-	0.01	2.590	3.246
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	1	21.00	22.00	1.259	-	-	0.18	2.190	2.757
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	1	21.06	22.00	1.242	-	-	0.1	2.570	3.191
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	1	21.04	22.00	1.247	-	-	-0.05	2.510	3.131
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	1	21.03	22.00	1.250	-	-	-0.01	2.450	3.063
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	1	21.01	22.00	1.256	-	-	0.02	1.580	1.985
	LTE Band 7	20M	QPSK	1	0	-	Back	17mm	Ant 1	DSI 4	21100	2535	1	22.95	24.00	1.274	-	-	-0.08	0.215	0.274
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	21100	2535	1	19.11	19.50	1.094	-	-	-0.14	0.771	0.843
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	20850	2510	1	18.99	19.50	1.125	-	-	0.07	1.010	1.136
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	21350	2560	1	18.97	19.50	1.130	-	-	0.06	0.846	0.956
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	21100	2535	1	19.07	19.50	1.104	-	-	-0.13	0.697	0.770
	LTE Band 7 Other PA	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 6	21100	2535	1	19.01	19.50	1.119	-	-	-0.15	0.703	0.787
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	15mm	Ant 4	DSI 4	20850	2510	1	23.31	24.00	1.172	-	-	0.03	0.333	0.390
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	1	22.97	24.00	1.268	62.9	1.006	0.12	1.290	1.645
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	1	22.87	24.00	1.297	62.9	1.006	-0.17	2.050	2.675
	LTE Band 41C	20M	QPSK	1	99	-	Back	0mm	Ant 1	DSI 6	39750+ 39948	2506+ 2525.8	1	22.82	24.00	1.312	62.9	1.006	0.03	1.820	2.403
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	1	22.85	24.00	1.303	62.9	1.006	-0.03	1.590	2.084



FCC SAR Test Report

Report No. : FA301303

	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	1	22.91	24.00	1.285	62.9	1.006	0.14	1.800	2.327
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	1	22.90	24.00	1.288	62.9	1.006	0.11	1.810	2.346
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	1	21.81	23.00	1.315	62.9	1.006	-0.05	1.670	2.210
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	1	21.64	23.00	1.368	62.9	1.006	0.14	1.760	2.422
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	1	21.61	23.00	1.377	62.9	1.006	-0.17	1.680	2.328
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	1	21.77	23.00	1.327	62.9	1.006	0.17	1.670	2.230
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	1	21.72	23.00	1.343	62.9	1.006	-0.05	1.620	2.188
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	1	21.80	23.00	1.318	62.9	1.006	0.01	0.851	1.129
119	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	1	24.73	26.00	1.340	42.9	1.009	0.03	2.350	3.177
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	0mm	Ant 1	DSI 6	39750+39948	2506+2525.8	1	24.55	26.00	1.396	42.9	1.009	0.08	2.120	2.987
	LTE Band 41	20M	QPSK	1	0	-	Back	17mm	Ant 1	DSI 4	39750	2506	1	22.87	24.00	1.297	62.9	1.006	-0.08	0.147	0.192
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	17mm	Ant 1	DSI 4	39750	2506	1	25.68	27.00	1.355	42.9	1.009	0.03	0.178	0.243
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.98	21.50	1.127	-	-	0.04	1.990	2.243
120	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.93	21.50	1.140	-	-	0.06	2.340	2.668
	FR1 n7 ENDC	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	18.93	19.50	1.140	-	-	0.06	1.460	1.665
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.89	21.50	1.151	-	-	0.04	1.910	2.198
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 1	DSI 4	507000	2535	1	23.45	24.00	1.135	-	-	0.01	0.209	0.237
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	1	20.93	22.00	1.279	-	-	0.01	1.570	2.009
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	1	20.84	22.00	1.306	-	-	0.06	1.640	2.142
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	1	20.83	22.00	1.309	-	-	-0.02	1.670	2.186
121	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	20.93	22.00	1.279	-	-	-0.08	2.250	2.879
	FR1 n41 ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	18.58	19.50	1.236	-	-	-0.08	1.410	1.743
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	20.84	22.00	1.306	-	-	-0.13	1.780	2.325
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	20.83	22.00	1.309	-	-	0.05	1.960	2.566
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.93	22.00	1.279	-	-	-0.17	1.700	2.175
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.84	22.00	1.306	-	-	0	1.350	1.763
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.83	22.00	1.309	-	-	-0.17	1.350	1.767
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	24.07	25.00	1.239	50	1.000	-0.05	2.090	2.589
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	7mm	Ant 1	DSI 4	518598	2592.99	1	22.95	24.00	1.274	-	-	0.1	0.522	0.665
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 1	DSI 4	518598	2592.99	1	22.95	24.00	1.274	-	-	-0.18	0.414	0.527
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	11mm	Ant 1	DSI 4	518598	2592.99	1	22.95	24.00	1.274	-	-	0.1	0.350	0.446
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	7mm	Ant 1	DSI 4	518598	2592.99	1	25.92	27.00	1.282	50	1.000	0.03	0.469	0.601
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 6	518598	2592.99	1	20.12	21.00	1.225	-	-	-0.05	0.960	1.176
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 6	518598	2592.99	1	19.88	21.00	1.294	-	-	-0.07	1.100	1.424
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 4	DSI 6	518598	2592.99	1	20.12	21.00	1.225	-	-	0.06	1.320	1.616
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 4	DSI 6	518598	2592.99	2	20.12	21.00	1.225	-	-	0.01	1.250	1.531
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 4	DSI 6	518598	2592.99	1	19.88	21.00	1.294	-	-	-0.06	1.220	1.579
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 4	DSI 6	518598	2592.99	1	20.12	21.00	1.225	-	-	-0.1	1.060	1.298
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 4	DSI 6	518598	2592.99	1	19.88	21.00	1.294	-	-	0.04	1.050	1.359
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 4	DSI 6	518598	2592.99	1	23.03	24.00	1.250	50	1.000	0.08	1.190	1.488
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	518598	2592.99	1	21.09	22.00	1.233	-	-	-0.01	1.920	2.368
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	518598	2592.99	2	21.09	22.00	1.233	-	-	0.01	1.820	2.244
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	518598	2592.99	1	21.05	22.00	1.245	-	-	0.05	1.350	1.680
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	518598	2592.99	1	20.97	22.00	1.268	-	-	0.05	1.380	1.749
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	518598	2592.99	1	24.14	25.00	1.219	50	1.000	0	1.860	2.267
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 7	DSI 4	518598	2592.99	1	20.59	22.00	1.384	-	-	0.02	0.696	0.963
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 7	DSI 4	518598	2592.99	1	20.49	22.00	1.416	-	-	0.01	0.470	0.665
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 4	518598	2592.99	1	20.59	22.00	1.384	-	-	0.02	1.780	2.463
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 4	518598	2592.99	2	20.59	22.00	1.384	-	-	0.01	1.580	2.186
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 4	518598	2592.99	1	20.49	22.00	1.416	-	-	0.11	1.350	1.911
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 4	518598	2592.99	1	19.52	21.00	1.406	-	-	-0.03	1.480	2.081
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 7	DSI 4	518598	2592.99	1	20.59	22.00	1.384	-	-	-0.16	1.320	1.826
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 7	DSI 4	518598	2592.99	1	20.49	22.00	1.416	-	-	0	0.976	1.382



FCC SAR Test Report

Report No. : FA3O1303

	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 6	633332	3499.98	1	19.19	20.50	1.352	-	-	0.1	0.928	1.255
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 6	633332	3499.98	1	19.17	20.50	1.358	-	-	0.08	1.130	1.535
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 6	633332	3499.98	1	22.18	23.50	1.355	50	1.000	0.1	1.370	1.857
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	3mm	Ant 5	DSI 4	633332	3499.98	1	22.68	24.00	1.355	-	-	0.14	1.420	1.924
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	8mm	Ant 5	DSI 4	633332	3499.98	1	22.68	24.00	1.355	-	-	-0.17	0.929	1.259
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633332	3499.98	1	22.68	24.00	1.355	-	-	0.17	0.556	0.753
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	3mm	Ant 5	DSI 4	633332	3499.98	1	25.62	27.00	1.374	50	1.000	0.04	1.350	1.855
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	656000	3840	1	18.06	19.50	1.393	-	-	0.18	1.900	2.647
124	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	656000	3840	1	17.98	19.50	1.419	-	-	-0.09	2.230	3.164
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	656000	3840	2	17.98	19.50	1.419	-	-	0.04	1.790	2.540
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	656000	3840	1	17.88	19.50	1.452	-	-	-0.09	2.070	3.006
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.96	22.50	1.426	50	1.000	-0.09	2.120	3.022
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 1	DSI 4	656000	3840	1	19.41	21.00	1.442	-	-	-0.05	0.101	0.146
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 1	DSI 6	656000	3840	1	22.34	24.00	1.466	50	1.000	0.03	0.096	0.141
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	656000	3840	1	15.41	16.50	1.285	-	-	0.09	1.790	2.301
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	656000	3840	2	15.41	16.50	1.285	-	-	0.02	1.170	1.504
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	656000	3840	1	15.35	16.50	1.303	-	-	-0.01	1.150	1.499
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	656000	3840	1	15.28	16.50	1.324	-	-	0.09	1.150	1.523
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	656000	3840	1	18.40	19.50	1.288	50	1.000	-0.07	1.710	2.203
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	656000	3840	1	19.41	20.50	1.285	-	-	-0.05	1.860	2.391
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	656000	3840	2	19.41	20.50	1.285	-	-	0.01	1.580	2.031
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	656000	3840	1	19.39	20.50	1.291	-	-	0.19	1.530	1.976
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	656000	3840	1	19.37	20.50	1.297	-	-	-0.09	1.650	2.140
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	1	19.41	20.50	1.285	-	-	0.02	0.677	0.870
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	1	19.39	20.50	1.291	-	-	-0.06	0.748	0.966
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	656000	3840	1	22.37	23.50	1.297	50	1.000	-0.11	1.800	2.335
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	633332	3499.98	1	19.07	20.50	1.390	-	-	0.13	1.350	1.876
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	633332	3499.98	1	19.03	20.50	1.403	-	-	-0.07	1.290	1.810
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 4	633332	3499.98	1	21.98	23.50	1.419	50	1.000	-0.04	1.280	1.816
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	650000	3750	2	16.27	17.50	1.327	-	-	0.01	1.430	1.898
125	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	650000	3750	1	16.27	17.50	1.327	-	-	-0.13	1.720	2.283
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	650000	3750	1	16.20	17.50	1.349	-	-	-0.07	1.360	1.835
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	650000	3750	1	16.09	17.50	1.384	-	-	-0.13	1.610	2.228
	FR1 n78 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 4	650000	3750	1	19.23	20.50	1.340	50	1.000	0.07	1.700	2.277



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2450MHz																	
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 6	Standalone	6	2437	1	19.24	21.00	1.500	99.36	1.006	-0.05	1.140	1.720
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	6	2437	1	19.24	21.00	1.500	99.36	1.006	0.18	1.600	2.414
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	11	2462	1	19.02	21.00	1.578	99.36	1.006	0.14	1.510	2.396
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6	Standalone	6	2437	1	19.24	21.00	1.500	99.36	1.006	-0.17	1.040	1.569
126	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	1	19.24	21.00	1.500	99.36	1.006	0.01	2.370	3.576
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	2	19.24	21.00	1.500	99.36	1.006	0.02	2.160	3.259
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	11	2462	1	19.02	21.00	1.578	99.36	1.006	0.17	2.220	3.523
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	1	2412	1	18.95	20.50	1.429	99.36	1.006	0.17	2.110	3.033
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	1	2412	1	19.15	21.00	1.531	98.27	1.018	0.05	2.240	3.491
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	1	19.06	21.00	1.563	98.27	1.018	0.08	2.210	3.517
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	11	2462	1	18.90	20.50	1.445	98.27	1.018	0.01	2.010	2.958
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 6	Simultaneous	6	2437	1	13.90	15.50	1.445	99.36	1.006	0.05	0.313	0.455
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Simultaneous	6	2437	1	13.90	15.50	1.445	99.36	1.006	0.05	0.441	0.641
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6	Simultaneous	6	2437	1	13.90	15.50	1.445	99.36	1.006	0.05	0.289	0.420
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Simultaneous	6	2437	1	13.90	15.50	1.445	99.36	1.006	-0.12	0.669	0.973
	WLAN2.4GHz	802.11b 1Mbps	Front	12mm	Ant 6	Full Power	6	2437	1	20.44	22.00	1.432	99.36	1.006	0.03	0.155	0.223
	WLAN2.4GHz	802.11b 1Mbps	Back	16mm	Ant 6	Full Power	6	2437	1	20.44	22.00	1.432	99.36	1.006	0.01	0.125	0.180
	WLAN2.4GHz	802.11b 1Mbps	Right Side	14mm	Ant 6	Full Power	6	2437	1	20.44	22.00	1.432	99.36	1.006	0.05	0.130	0.187
	WLAN2.4GHz	802.11b 1Mbps	Top Side	16mm	Ant 6	Full Power	6	2437	1	20.44	22.00	1.432	99.36	1.006	0.02	0.120	0.173
5000MHz																	
	WLAN5.2GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.12	0.661	0.989
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.03	1.420	2.125
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	44	5220	1	19.77	21.50	1.491	98.26	1.018	0.18	1.540	2.337
	WLAN5.2GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.16	1.090	1.631
	WLAN5.2GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	44	5220	1	19.77	21.50	1.491	98.26	1.018	-0.1	0.875	1.328
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.07	1.600	2.395
127	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	44	5220	1	19.77	21.50	1.491	98.26	1.018	0.09	1.750	2.656
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	44	5220	2	19.77	21.50	1.491	98.26	1.018	0.05	1.660	2.519
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	Simultaneous	46	5230	1	15.78	17.00	1.324	96.30	1.038	0.07	0.245	0.337
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Simultaneous	46	5230	1	15.78	17.00	1.324	96.30	1.038	0.03	0.551	0.757
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Simultaneous	46	5230	1	15.78	17.00	1.324	96.30	1.038	0.09	0.642	0.883
	WLAN5.2GHz	802.11a 6Mbps	Front	12mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.01	0.114	0.171
	WLAN5.2GHz	802.11a 6Mbps	Back	16mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	0.1	0.382	0.572
	WLAN5.2GHz	802.11a 6Mbps	Top Side	16mm	Ant 6	Full Power	48	5240	1	19.83	21.50	1.470	98.26	1.018	-0.17	0.274	0.410
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	0.07	0.858	1.258
128	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	-0.01	1.700	2.492
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	52	5260	1	19.89	21.50	1.450	98.26	1.018	-0.18	1.620	2.391
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	0.03	1.160	1.701
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	-0.15	1.470	2.155
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	52	5260	1	19.89	21.50	1.450	98.26	1.018	-0.15	1.620	2.391
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	58	5290	1	15.99	17.50	1.416	92.71	1.079	0.03	0.311	0.475
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	58	5290	1	15.99	17.50	1.416	92.71	1.079	0.02	0.652	0.996
	WLAN5.3GHz	802.11a 6Mbps	Front	12mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	0.17	0.122	0.179
	WLAN5.3GHz	802.11a 6Mbps	Back	16mm	Ant 6	Full Power	56	5280	1	19.92	21.50	1.440	98.26	1.018	-0.05	0.393	0.576
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	-0.08	0.552	0.739
129	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	0.01	1.590	2.129
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	124	5620	2	19.81	21.00	1.315	98.26	1.018	0.03	1.420	1.901
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	140	5700	1	19.54	21.00	1.400	98.26	1.018	-0.04	1.240	1.767
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	-0.08	1.120	1.500
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	0.17	1.340	1.794
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	140	5700	1	19.54	21.00	1.400	98.26	1.018	0.18	0.655	0.933



FCC SAR Test Report

Report No. : FA3O1303

	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	122	5610	1	16.25	18.00	1.496	92.71	1.079	0.07	0.205	0.331
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	122	5610	1	16.25	18.00	1.496	92.71	1.079	0.08	0.613	0.990
	WLAN5.5GHz	802.11a 6Mbps	Front	12mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	0.14	0.041	0.055
	WLAN5.5GHz	802.11a 6Mbps	Back	16mm	Ant 6	Full Power	124	5620	1	19.81	21.00	1.315	98.26	1.018	-0.17	0.191	0.256
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	157	5785	1	19.73	21.00	1.341	98.26	1.018	-0.11	1.550	2.116
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	165	5825	1	19.63	21.00	1.372	98.26	1.018	-0.12	1.600	2.235
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	157	5785	1	19.73	21.00	1.341	98.26	1.018	0.03	2.020	2.757
130	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	165	5825	1	19.63	21.00	1.372	98.26	1.018	-0.06	2.070	2.891
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	165	5825	2	19.63	21.00	1.372	98.26	1.018	-0.03	1.960	2.738
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	155	5775	1	14.53	16.00	1.403	92.71	1.079	0.03	0.200	0.303
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	155	5775	1	14.53	16.00	1.403	92.71	1.079	0.03	0.510	0.772
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Simultaneous	155	5775	1	14.53	16.00	1.403	92.71	1.079	0.08	0.651	0.985
	WLAN5.8GHz	802.11a 6Mbps	Front	12mm	Ant 6	Full Power	157	5785	1	19.73	21.00	1.341	98.26	1.018	0.11	0.066	0.090
	WLAN5.8GHz	802.11a 6Mbps	Back	16mm	Ant 6	Full Power	157	5785	1	19.73	21.00	1.341	98.26	1.018	-0.05	0.313	0.427
	WLAN5.8GHz	802.11a 6Mbps	Right Side	14mm	Ant 6	Full Power	157	5785	1	19.73	21.00	1.341	98.26	1.018	0.18	0.312	0.426



15.5 Repeated SAR Measurement

<1g>

Table with 22 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Ratio, Reported 1g SAR (W/kg). Rows include WLAN, LTE, and FR1 bands.

<10g>

Table with 22 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 10g SAR (W/kg), Ratio, Reported 10g SAR (W/kg). Rows include LTE, FR1, and WLAN bands.



General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

15.6 TDD LTE and NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41/5G NR n41/n77/n78. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE Band 41(HPUE)Ant 1-Linearity Data for Head			LTE Band 41(HPUE)Ant 1-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	22.50	24.00
Reported 1g SAR (W/kg)	0.298	0.383	Reported 1g SAR (W/kg)	1.288	1.362
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	112.57	108.76
Linearity SAR (W/kg)	0.407		Linearity SAR (W/kg)	1.245	
% deviation from expected linearity		-5.83%	% deviation from expected linearity		9.44%

FR1 n41(HPUE) Ant 1-Linearity Data for Head			FR1 n41(HPUE) Ant 1-Linearity Data for Hotspot		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.644	0.616	Reported 1g SAR (W/kg)	1.230	1.105
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.642		Linearity SAR (W/kg)	1.227	
% deviation from expected linearity		-4.12%	% deviation from expected linearity		-9.95%

FR1 n41(HPUE) Ant 4-Linearity Data for Head			FR1 n41(HPUE) Ant 4-Linearity Data for Hotspot		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.866	0.873	Reported 1g SAR (W/kg)	0.695	0.699
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.864		Linearity SAR (W/kg)	0.693	
% deviation from expected linearity		1.05%	% deviation from expected linearity		0.81%

FR1 n41(HPUE) Ant 2-Linearity Data for Head			FR1 n41(HPUE) Ant 2-Linearity Data for Hotspot		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.225	0.240	Reported 1g SAR (W/kg)	0.614	0.576
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.224		Linearity SAR (W/kg)	0.613	
% deviation from expected linearity		6.92%	% deviation from expected linearity		-5.97%

FR1 n41(HPUE) Ant 7-Linearity Data for Head			FR1 n41(HPUE) Ant 7-Linearity Data for Hotspot		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	22.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.847	0.872	Reported 1g SAR (W/kg)	0.685	0.672
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%



Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.845		Linearity SAR (W/kg)	0.683	
% deviation from expected linearity		3.20%	% deviation from expected linearity		-1.66%
FR1 n77(HPUE) Part27O Ant 5-Linearity Data for Head			FR1 n77(HPUE) Part27O Ant 5-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.501	0.489	Reported 1g SAR (W/kg)	0.449	0.435
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.500		Linearity SAR (W/kg)	0.448	
% deviation from expected linearity		-2.16%	% deviation from expected linearity		-2.89%
FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Head			FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.882	0.849	Reported 1g SAR (W/kg)	0.599	0.583
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.880		Linearity SAR (W/kg)	0.598	
% deviation from expected linearity		-3.51%	% deviation from expected linearity		-2.44%
FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Head			FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.114	0.104	Reported 1g SAR (W/kg)	1.392	1.391
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.114		Linearity SAR (W/kg)	1.389	
% deviation from expected linearity		-8.56%	% deviation from expected linearity		0.17%
FR1 n77(HPUE) Part27Q Ant 1-Linearity Data for Head			FR1 n77(HPUE) Part27Q Ant 1-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.104	0.101	Reported 1g SAR (W/kg)	0.341	0.323
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.104		Linearity SAR (W/kg)	0.340	
% deviation from expected linearity		-2.65%	% deviation from expected linearity		-5.05%
FR1 n77(HPUE) Part27O Ant 2-Linearity Data for Head			FR1 n77(HPUE) Part27O Ant 2-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	13.00	16.00
Reported 1g SAR (W/kg)	0.163	0.159	Reported 1g SAR (W/kg)	0.685	0.684
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	19.95	19.91
Linearity SAR (W/kg)	0.163		Linearity SAR (W/kg)	0.683	
% deviation from expected linearity		-2.22%	% deviation from expected linearity		0.09%
FR1 n77(HPUE) Part27Q Ant 2-Linearity Data for Head			FR1 n77(HPUE) Part27Q Ant 2-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	13.00	16.00
Reported 1g SAR (W/kg)	0.164	0.148	Reported 1g SAR (W/kg)	0.266	0.245
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%



Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	19.95	19.91
Linearity SAR (W/kg)	0.164		Linearity SAR (W/kg)	0.265	
% deviation from expected linearity		-9.54%	% deviation from expected linearity		-7.68%
FR1 n77(HPUE) Part27O Ant 8-Linearity Data for Head			FR1 n77(HPUE) Part27O Ant 8-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	13.50	16.50
Reported 1g SAR (W/kg)	0.387	0.355	Reported 1g SAR (W/kg)	0.664	0.604
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	0.386		Linearity SAR (W/kg)	0.662	
% deviation from expected linearity		-8.05%	% deviation from expected linearity		-8.82%
FR1 n77(HPUE) Part27Q Ant 8-Linearity Data for Head			FR1 n77(HPUE) Part27Q Ant 8-Linearity Data for Hotspot		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	13.50	16.50
Reported 1g SAR (W/kg)	0.250	0.227	Reported 1g SAR (W/kg)	0.262	0.255
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	0.249		Linearity SAR (W/kg)	0.261	
% deviation from expected linearity		-8.98%	% deviation from expected linearity		-2.44%
FR1 n78(HPUE) Part27O Ant 2-Linearity Data for Head			FR1 n78(HPUE) Part27O Ant 2-Linearity Data for Hotspot		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.136	0.126	Reported 1g SAR (W/kg)	0.669	0.664
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.136		Linearity SAR (W/kg)	0.667	
% deviation from expected linearity		-7.13%	% deviation from expected linearity		-0.51%
FR1 n78(HPUE) Part27Q Ant 2-Linearity Data for Head			FR1 n78(HPUE) Part27Q Ant 2-Linearity Data for Hotspot		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.261	0.241	Reported 1g SAR (W/kg)	0.361	0.326
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.260		Linearity SAR (W/kg)	0.360	
% deviation from expected linearity		-7.44%	% deviation from expected linearity		-9.48%



Sensor on			Sensor off		
LTE Band 41(HPUE)Ant 1-Linearity Data for Body-worn			LTE Band 41(HPUE)Ant 1-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	24.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	1.265	1.215	Reported 1g SAR (W/kg)	0.223	0.275
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	112.57	108.76	Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	1.222		Linearity SAR (W/kg)	0.304	
% deviation from expected linearity		-0.60%	% deviation from expected linearity		-9.65%
FR1 n41(HPUE) Ant 1-Linearity Data for Body-worn			FR1 n41(HPUE) Ant 1-Linearity Data for Body-worn		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	1.236	1.213	Reported 1g SAR (W/kg)	0.283	0.296
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.233		Linearity SAR (W/kg)	0.282	
% deviation from expected linearity		-1.63%	% deviation from expected linearity		4.84%
FR1 n41(HPUE) Ant 4-Linearity Data for Body-worn			FR1 n41(HPUE) Ant 4-Linearity Data for Body-worn		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.850	0.864	Reported 1g SAR (W/kg)	0.129	0.126
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.848		Linearity SAR (W/kg)	0.129	
% deviation from expected linearity		1.89%	% deviation from expected linearity		-2.09%
FR1 n41(HPUE) Ant 2-Linearity Data for Body-worn			FR1 n41(HPUE) Ant 2-Linearity Data for Body-worn		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	22.50	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.897	0.889	Reported 1g SAR (W/kg)	0.125	0.116
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	0.895		Linearity SAR (W/kg)	0.125	
% deviation from expected linearity		-0.66%	% deviation from expected linearity		-6.98%
FR1 n41(HPUE) Ant 7-Linearity Data for Body-worn			FR1 n41(HPUE) Ant 7-Linearity Data for Body-worn		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.840	0.829	Reported 1g SAR (W/kg)	0.188	0.169
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	0.838		Linearity SAR (W/kg)	0.188	
% deviation from expected linearity		-1.08%	% deviation from expected linearity		-9.89%
FR1 n77(HPUE) Part270 Ant 5-Linearity Data for Body-worn			FR1 n77(HPUE) Part270 Ant 5-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.751	0.677	Reported 1g SAR (W/kg)	0.553	0.524
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	251.19	250.59



Linearity SAR (W/kg)	0.749		Linearity SAR (W/kg)	0.552	
% deviation from expected linearity		-9.64%	% deviation from expected linearity		-5.02%
FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Body-worn			FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.905	0.884	Reported 1g SAR (W/kg)	0.901	0.856
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.903		Linearity SAR (W/kg)	0.899	
% deviation from expected linearity		-2.09%	% deviation from expected linearity		-4.77%
FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Body-worn			FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	1.392	1.391	Reported 1g SAR (W/kg)	0.224	0.204
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	1.389		Linearity SAR (W/kg)	0.223	
% deviation from expected linearity		0.17%	% deviation from expected linearity		-8.71%

FR1 n77(HPUE) Part27Q Ant 1-Linearity Data for Body-worn			FR1 n77(HPUE) Part27Q Ant 1-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.341	0.323	Reported 1g SAR (W/kg)	0.134	0.124
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.340		Linearity SAR (W/kg)	0.134	
% deviation from expected linearity		-5.05%	% deviation from expected linearity		-7.24%
FR1 n77(HPUE) Part27O Ant 2-Linearity Data for Body-worn			FR1 n77(HPUE) Part27O Ant 2-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.900	0.814	Reported 1g SAR (W/kg)	0.238	0.218
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.898		Linearity SAR (W/kg)	0.237	
% deviation from expected linearity		-9.34%	% deviation from expected linearity		-8.19%
FR1 n77(HPUE) Part27Q Ant 2-Linearity Data for Body-worn			FR1 n77(HPUE) Part27Q Ant 2-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.346	0.311	Reported 1g SAR (W/kg)	0.098	0.089
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.345		Linearity SAR (W/kg)	0.098	
% deviation from expected linearity		-9.90%	% deviation from expected linearity		-8.97%
FR1 n77(HPUE) Part27O Ant 8-Linearity Data for Body-worn			FR1 n77(HPUE) Part27O Ant 8-Linearity Data for Body-worn		
	FR1 n77 (Power)	FR1 n77 (Power)		FR1 n77 (Power)	FR1 n77 (Power)



	Class 3)	Class 2)		Class 3)	Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	20.50	23.50
Reported 1g SAR (W/kg)	0.890	0.868	Reported 1g SAR (W/kg)	0.217	0.217
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	0.888		Linearity SAR (W/kg)	0.216	
% deviation from expected linearity		-2.24%	% deviation from expected linearity		0.24%
FR1 n77(HPUE) Part27Q Ant 8-Linearity Data for Body-worn			FR1 n77(HPUE) Part27Q Ant 8-Linearity Data for Body-worn		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	20.50	23.50
Reported 1g SAR (W/kg)	0.384	0.378	Reported 1g SAR (W/kg)	0.125	0.122
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	0.383		Linearity SAR (W/kg)	0.125	
% deviation from expected linearity		-1.33%	% deviation from expected linearity		-2.17%
FR1 n78(HPUE) Part27O Ant 2-Linearity Data for Body-worn			FR1 n78(HPUE) Part27O Ant 2-Linearity Data for Body-worn		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.803	0.793	Reported 1g SAR (W/kg)	0.324	0.303
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.801		Linearity SAR (W/kg)	0.323	
% deviation from expected linearity		-1.01%	% deviation from expected linearity		-6.26%
FR1 n78(HPUE) Part27Q Ant 2-Linearity Data for Body-worn			FR1 n78(HPUE) Part27Q Ant 2-Linearity Data for Body-worn		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.427	0.465	Reported 1g SAR (W/kg)	0.143	0.133
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.426		Linearity SAR (W/kg)	0.143	
% deviation from expected linearity		9.16%	% deviation from expected linearity		-6.77%

Sensor on

Sensor off

LTE Band 41(HPUE)Ant 1-Linearity Data for Extremity			LTE Band 41(HPUE)Ant 1-Linearity Data for Extremity		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.675	3.177	Reported 10g SAR (W/kg)	0.192	0.243
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	172.38	Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	2.900		Linearity SAR (W/kg)	0.262	
% deviation from expected linearity		9.55%	% deviation from expected linearity		-7.27%
FR1 n41(HPUE) Ant 1-Linearity Data for Extremity			FR1 n41(HPUE) Ant 1-Linearity Data for Extremity		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.879	2.589	Reported 10g SAR (W/kg)	0.665	0.601
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	251.19	250.59



Linearity SAR (W/kg)	2.872		Linearity SAR (W/kg)	0.663	
% deviation from expected linearity		-9.86%	% deviation from expected linearity		-9.41%

FR1 n41(HPUE) Ant 4-Linearity Data for Extremity		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00
Reported 10g SAR (W/kg)	1.616	1.488
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	1.612	
% deviation from expected linearity		-7.70%

FR1 n41(HPUE) Ant 2-Linearity Data for Extremity		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00
Reported 10g SAR (W/kg)	2.368	2.267
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	2.362	
% deviation from expected linearity		-4.04%

FR1 n41(HPUE) Ant 7-Linearity Data for Extremity		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00
Reported 10g SAR (W/kg)	2.463	2.235
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	2.457	
% deviation from expected linearity		-9.04%

FR1 n77(HPUE) Part27O Ant 5-Linearity Data for Extremity			FR1 n77(HPUE) Part27O Ant 5-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.471	2.342	Reported 10g SAR (W/kg)	0.801	0.777
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.465		Linearity SAR (W/kg)	0.799	
% deviation from expected linearity		-5.00%	% deviation from expected linearity		-2.77%

FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Extremity			FR1 n77(HPUE) Part27Q Ant 5-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	1.933	1.857	Reported 10g SAR (W/kg)	1.924	1.855
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.928		Linearity SAR (W/kg)	1.919	
% deviation from expected linearity		-3.70%	% deviation from expected linearity		-3.36%

FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Extremity			FR1 n77(HPUE) Part27O Ant 1-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	22.50	Maximum Tune up Power (dBm)	21.00	24.00
Reported 10g SAR (W/kg)	3.164	3.022	Reported 10g SAR (W/kg)	0.146	0.141
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	3.157		Linearity SAR (W/kg)	0.146	
% deviation from expected linearity		-4.26%	% deviation from expected linearity		-3.20%



FR1 n77(HPUE) Part27O Ant 2-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50
Reported 10g SAR (W/kg)	2.301	2.203
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	2.296	
% deviation from expected linearity		-4.03%
FR1 n77(HPUE) Part27O Ant 8-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50
Reported 10g SAR (W/kg)	2.391	2.335
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	2.385	
% deviation from expected linearity		-2.11%
FR1 n77(HPUE) Part27Q Ant 8-Linearity Data for Extremity		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50
Reported 10g SAR (W/kg)	1.876	1.816
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	1.872	
% deviation from expected linearity		-2.97%
FR1 n78(HPUE) Part27O Ant 2-Linearity Data for Extremity		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50
Reported 10g SAR (W/kg)	2.283	2.277
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	2.278	
% deviation from expected linearity		-0.03%

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + WLAN2.4GHz + NFC				Yes
7.	WWAN + WLAN5GHz + NFC				Yes
8.	WWAN + Bluetooth + NFC				Yes
9.	WLAN5GHz + Bluetooth+ NFC				Yes
10.	WWAN + WLAN5GHz + Bluetooth+ NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5G NR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can not transmit simultaneously.
- WLAN 2.4GHz and Bluetooth share the same antenna and they cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- For inter-band UL CA SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE bands within the selected antenna per each test position to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE band.
- For EN-DC SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE bands within the selected antenna per each test position and also the worst SAR of the selected 5G NR Bands within the selected antenna to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands and each 5G NR band.
- For co-located SAR with WWAN, always chose higher SAR among WLAN2.4GHz, WLAN 5GHz and BT, it is the worst co-located analysis and can represent each WLAN2.4GHz, WLAN 5GHz and BT bands.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 16.5.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ANT0	Right Cheek	0.594	0.213	0.211	0.137	0.81	0.94
	Right Tilted	0.350	0.201	0.234	0.151	0.55	0.74
	Left Cheek	0.502	0.498	0.383	0.307	1.00	1.19
	Left Tilted	0.257	0.309	0.325	0.213	0.57	0.80
ANT1	Right Cheek	0.443	0.213	0.211	0.137	0.66	0.79
	Right Tilted	0.407	0.201	0.234	0.151	0.61	0.79
	Left Cheek	0.644	0.498	0.383	0.307	1.14	1.33
	Left Tilted	0.213	0.309	0.325	0.213	0.52	0.75
ANT2	Right Cheek	0.261	0.213	0.211	0.137	0.47	0.61
	Right Tilted	0.108	0.201	0.234	0.151	0.31	0.49
	Left Cheek	0.138	0.498	0.383	0.307	0.64	0.83
	Left Tilted	0.081	0.309	0.325	0.213	0.39	0.62
ANT4	Right Cheek	0.915	0.213	0.211	0.137	1.13	1.26
	Right Tilted	0.897	0.201	0.234	0.151	1.10	1.28
	Left Cheek	0.679	0.498	0.383	0.307	1.18	1.37
	Left Tilted	0.736	0.309	0.325	0.213	1.05	1.27
ANT5	Right Cheek	0.518	0.213	0.211	0.137	0.73	0.87
	Right Tilted	0.694	0.201	0.234	0.151	0.90	1.08
	Left Cheek	0.882	0.498	0.383	0.307	1.38	1.57
	Left Tilted	0.875	0.309	0.325	0.213	1.18	1.41
ANT7	Right Cheek	0.248	0.213	0.211	0.137	0.46	0.60
	Right Tilted	0.219	0.201	0.234	0.151	0.42	0.60
	Left Cheek	0.872	0.498	0.383	0.307	1.37	1.56
	Left Tilted	0.459	0.309	0.325	0.213	0.77	1.00
ANT8	Right Cheek	0.244	0.213	0.211	0.137	0.46	0.59
	Right Tilted	0.120	0.201	0.234	0.151	0.32	0.51
	Left Cheek	0.387	0.498	0.383	0.307	0.89	1.08
	Left Tilted	0.274	0.309	0.325	0.213	0.6	0.8

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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE All bands(12/14/5) ANT0	LTE All bands(30) ANT1	Right Cheek	0.401	0.201	0.213	0.211	0.137	0.82	0.95
		Right Tilted	0.295	0.108	0.201	0.234	0.151	0.60	0.79
		Left Cheek	0.410	0.170	0.498	0.383	0.307	1.08	1.27
		Left Tilted	0.241	0.138	0.309	0.325	0.213	0.69	0.92
LTE All bands(2/4/5/12/13/66) ANT0	LTE All bands(2/4/5/12/13/66) ANT4	Right Cheek	0.422	0.718	0.213	0.211	0.137	1.35	1.49
		Right Tilted	0.295	0.718	0.201	0.234	0.151	1.21	1.40
		Left Cheek	0.410	0.490	0.498	0.383	0.307	1.40	1.59
		Left Tilted	0.234	0.718	0.309	0.325	0.213	1.26	1.49
LTE All bands(5/12/14) ANT4	LTE All bands(30) ANT1	Right Cheek	0.718	0.201	0.213	0.211	0.137	1.13	1.27
		Right Tilted	0.718	0.108	0.201	0.234	0.151	1.03	1.21
		Left Cheek	0.718	0.170	0.498	0.383	0.307	1.39	1.58
		Left Tilted	0.718	0.138	0.309	0.325	0.213	1.17	1.39



<ENDC>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	SPLSR
			WWAN	FR1	WLAN2.4GHz	WLAN5GHz	Bluetooth	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	Ant 6	Ant 6	Ant 6	1g SAR (W/kg)	1g SAR (W/kg)	
LTE band (2/5/12/14/26/66/71) Ant0	FR1 band (7/30/41) Ant1	Right Cheek	0.401	0.443	0.213	0.211	0.137	1.06	1.19	
		Right Tilted	0.295	0.407	0.201	0.234	0.151	0.90	1.09	
		Left Cheek	0.410	0.644	0.498	0.383	0.307	1.55	1.74	4
		Left Tilted	0.241	0.213	0.309	0.325	0.213	0.76	0.99	
LTE band (2/4/5/12/13/14/26/66/71) Ant0	FR1 band (2/5/12/25/66/71) Ant4	Right Cheek	0.422	0.722	0.213	0.211	0.137	1.36	1.49	
		Right Tilted	0.259	0.897	0.201	0.234	0.151	1.36	1.54	
		Left Cheek	0.410	0.487	0.498	0.383	0.307	1.40	1.59	
		Left Tilted	0.243	0.633	0.309	0.325	0.213	1.19	1.41	
LTE band (2/4/5/12/13/14/26/66/71) Ant4	FR1 band (2/5/12/25/66/71) Ant0	Right Cheek	0.898	0.405	0.213	0.211	0.137	1.52	1.65	1
		Right Tilted	0.852	0.238	0.201	0.234	0.151	1.29	1.48	
		Left Cheek	0.635	0.355	0.498	0.383	0.307	1.49	1.68	5
		Left Tilted	0.626	0.212	0.309	0.325	0.213	1.15	1.38	
LTE band (2/5/12/13/14/7/25/30/66) Ant4	FR1 band (77/78) Ant5	Right Cheek	0.442	0.442	0.213	0.211	0.137	1.10	1.23	
		Right Tilted	0.442	0.442	0.201	0.234	0.151	1.09	1.27	
		Left Cheek	0.442	0.442	0.498	0.383	0.307	1.38	1.57	
		Left Tilted	0.442	0.442	0.309	0.325	0.213	1.19	1.42	
LTE band (48) Ant5	FR1 band (5/66/71) Ant4	Right Cheek	0.417	0.472	0.213	0.211	0.137	1.10	1.24	
		Right Tilted	0.417	0.472	0.201	0.234	0.151	1.09	1.27	
		Left Cheek	0.417	0.472	0.498	0.383	0.307	1.39	1.58	
		Left Tilted	0.417	0.472	0.309	0.325	0.213	1.20	1.43	
LTE band (7/30) Ant1	FR1 band (5/71) Ant0	Right Cheek	0.234	0.184	0.213	0.211	0.137	0.63	0.77	
		Right Tilted	0.306	0.109	0.201	0.234	0.151	0.62	0.80	
		Left Cheek	0.508	0.173	0.498	0.383	0.307	1.18	1.37	
		Left Tilted	0.172	0.114	0.309	0.325	0.213	0.60	0.82	
LTE band (2/4/5/12/14/25/26/66/71) Ant4	FR1 band (7/30/41) Ant1	Right Cheek	0.898	0.443	0.213	0.211	0.137	1.55	1.69	2
		Right Tilted	0.852	0.407	0.201	0.234	0.151	1.46	1.64	3
		Left Cheek	0.635	0.644	0.498	0.383	0.307	1.78	1.97	6
		Left Tilted	0.626	0.213	0.309	0.325	0.213	1.15	1.38	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant0	FR1 band (77/78) Ant5	Right Cheek	0.422	0.442	0.213	0.211	0.137	1.08	1.21	
		Right Tilted	0.295	0.442	0.201	0.234	0.151	0.94	1.12	
		Left Cheek	0.410	0.442	0.498	0.383	0.307	1.35	1.54	
		Left Tilted	0.243	0.442	0.309	0.325	0.213	0.99	1.22	
LTE band (7/30) Ant1	FR1 band (2/5/25/66) Ant4	Right Cheek	0.234	0.722	0.213	0.211	0.137	1.17	1.30	
		Right Tilted	0.306	0.897	0.201	0.234	0.151	1.40	1.59	
		Left Cheek	0.508	0.487	0.498	0.383	0.307	1.49	1.69	7
		Left Tilted	0.172	0.633	0.309	0.325	0.213	1.11	1.34	
LTE band (48) Ant5	FR1 band (5/66/71) Ant0	Right Cheek	0.417	0.224	0.213	0.211	0.137	0.85	0.99	
		Right Tilted	0.417	0.097	0.201	0.234	0.151	0.72	0.90	
		Left Cheek	0.417	0.185	0.498	0.383	0.307	1.10	1.29	
		Left Tilted	0.417	0.162	0.309	0.325	0.213	0.89	1.12	



16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ANT0	Front	0.833	0.284	0.246	0.179	1.12	1.26	
	Back	1.357	0.571	0.597	0.302	1.93	2.26	9
	Left side	0.558				0.56	0.56	
	Right side	0.847	0.292	0.567	0.177	1.14	1.59	
	Top side		0.326	0.510	0.208	0.33	0.72	
	Bottom side	1.371				1.37	1.37	
ANT1	Front	0.841	0.284	0.246	0.179	1.13	1.27	
	Back	1.392	0.571	0.597	0.302	1.96	2.29	11
	Left side	0.731				0.73	0.73	
	Right side		0.292	0.567	0.177	0.29	0.74	
	Top side		0.326	0.510	0.208	0.33	0.72	
	Bottom side	0.847				0.85	0.85	
ANT2	Front	0.329	0.284	0.246	0.179	0.61	0.75	
	Back	0.685	0.571	0.597	0.302	1.26	1.58	
	Left side	0.232				0.23	0.23	
	Right side		0.292	0.567	0.177	0.29	0.74	
	Top side	0.145	0.326	0.510	0.208	0.47	0.86	
	Bottom side					0.00	0.00	
ANT4	Front	0.433	0.284	0.246	0.179	0.72	0.86	
	Back	0.689	0.571	0.597	0.302	1.26	1.59	
	Left side	0.333				0.33	0.33	
	Right side		0.292	0.567	0.177	0.29	0.74	
	Top side	0.716	0.326	0.510	0.208	1.04	1.43	
	Bottom side					0.00	0.00	
ANT5	Front	0.374	0.284	0.246	0.179	0.66	0.80	
	Back	0.654	0.571	0.597	0.302	1.23	1.55	
	Left side	0.067				0.07	0.07	
	Right side	0.170	0.292	0.567	0.177	0.46	0.91	
	Top side	0.507	0.326	0.510	0.208	0.83	1.23	
	Bottom side					0.00	0.00	
ANT7	Front	0.273	0.284	0.246	0.179	0.56	0.70	
	Back	0.685	0.571	0.597	0.302	1.26	1.58	
	Left side					0.00	0.00	
	Right side	0.636	0.292	0.567	0.177	0.93	1.38	
	Top side	0.136	0.326	0.510	0.208	0.46	0.85	
	Bottom side					0.00	0.00	
ANT8	Front	0.065	0.284	0.246	0.179	0.35	0.49	
	Back	0.664	0.571	0.597	0.302	1.24	1.56	
	Left side					0.00	0.00	
	Right side	0.367	0.292	0.567	0.177	0.66	1.11	
	Top side	0.062	0.326	0.510	0.208	0.39	0.78	
	Bottom side					0.00	0.00	



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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	Case No
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE All band(12/14/5) ANT0	LTE All band(30) ANT1	Front	0.474	0.671	0.284	0.246	0.179	1.43	1.57	
		Back	0.690	0.684	0.571	0.597	0.302	1.95	2.27	12
		Left side	0.448	0.630				1.08	1.08	
		Right side	0.752		0.292	0.567	0.177	1.04	1.50	
		Top side			0.326	0.510	0.208	0.33	0.72	
		Bottom side	0.752	0.133				0.89	0.89	
LTE All band(2/4/5/12/13/66) ANT0	LTE All band(2/4/5/12/13/66) ANT4	Front	0.478	0.433	0.284	0.246	0.179	1.20	1.34	
		Back	0.751	0.689	0.571	0.597	0.302	2.01	2.34	14
		Left side	0.558	0.305				0.86	0.86	
		Right side	0.752		0.292	0.567	0.177	1.04	1.50	
		Top side		0.711	0.326	0.510	0.208	1.04	1.43	
		Bottom side	0.752					0.75	0.75	
LTE All band(5/12/14) ANT4	LTE All band(30) ANT1	Front	0.301	0.671	0.284	0.246	0.179	1.26	1.40	
		Back	0.618	0.684	0.571	0.597	0.302	1.87	2.20	16
		Left side	0.218	0.630				0.85	0.85	
		Right side			0.292	0.567	0.177	0.29	0.74	
		Top side	0.673		0.326	0.510	0.208	1.00	1.39	
		Bottom side		0.133				0.13	0.13	

<ENDC>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	Case No
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE band (2/5/12/14/26/66/71) Ant0	FR1 band (7/30/41) Ant1	Front	0.474	0.472	0.284	0.246	0.179	1.23	1.37	
		Back	0.723	0.721	0.571	0.597	0.302	2.02	2.34	17
		Left side	0.448	0.721				1.17	1.17	
		Right side	0.752		0.292	0.567	0.177	1.04	1.50	
		Top side			0.326	0.510	0.208	0.33	0.72	
		Bottom side	0.752	0.721				1.47	1.47	
LTE band (2/4/5/12/13/14/26/66/71) Ant0	FR1 band (2/5/12/25/66/71) Ant4	Front	0.478	0.278	0.284	0.246	0.179	1.04	1.18	
		Back	0.751	0.638	0.571	0.597	0.302	1.96	2.29	18
		Left side	0.558	0.217				0.78	0.78	
		Right side	0.752		0.292	0.567	0.177	1.04	1.50	
		Top side		0.615	0.326	0.510	0.208	0.94	1.33	
		Bottom side	0.752					0.75	0.75	
LTE band (2/4/5/12/13/14/26/66/71) Ant4	FR1 band (2/5/12/25/66/71) Ant0	Front	0.433	0.827	0.284	0.246	0.179	1.54	1.69	25
		Back	0.689	1.211	0.571	0.597	0.302	2.47	2.80	19
		Left side	0.305	0.276				0.58	0.58	
		Right side		0.521	0.292	0.567	0.177	0.81	1.27	
		Top side	0.711		0.326	0.510	0.208	1.04	1.43	
		Bottom side		1.347				1.35	1.35	
LTE band (2/5/12/13/14/7/25/30/66) Ant4	FR1 band (7/7/8) Ant5	Front	0.318	0.270	0.284	0.246	0.179	0.87	1.01	
		Back	0.318	0.270	0.571	0.597	0.302	1.16	1.49	
		Left side	0.318	0.270				0.59	0.59	
		Right side		0.270	0.292	0.567	0.177	0.56	1.01	
		Top side	0.318	0.270	0.326	0.510	0.208	0.91	1.31	
		Bottom side						0.00	0.00	
LTE band (48) Ant5	FR1 band	Front	0.249	0.278	0.284	0.246	0.179	0.81	0.95	



	(5/66/71) Ant4	Back	0.316	0.320	0.571	0.597	0.302	1.21	1.54	
		Left side	0.033	0.217				0.25	0.25	
		Right side	0.132		0.292	0.567	0.177	0.42	0.88	
		Top side	0.385	0.390	0.326	0.510	0.208	1.10	1.49	
		Bottom side						0.00	0.00	
LTE band (7/30) Ant1	FR1 band (5/71) Ant0	Front	0.671	0.611	0.284	0.246	0.179	1.57	1.71	26
		Back	0.725	0.711	0.571	0.597	0.302	2.01	2.34	20
		Left side	0.630	0.263				0.89	0.89	
		Right side		0.521	0.292	0.567	0.177	0.81	1.27	
		Top side			0.326	0.510	0.208	0.33	0.72	
		Bottom side	0.671	0.711				1.38	1.38	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant4	FR1 band (7/30/41) Ant1	Front	0.433	0.472	0.284	0.246	0.179	1.19	1.33	
		Back	0.689	0.721	0.571	0.597	0.302	1.98	2.31	21
		Left side	0.305	0.721				1.03	1.03	
		Right side			0.292	0.567	0.177	0.29	0.74	
		Top side	0.711		0.326	0.510	0.208	1.04	1.43	
		Bottom side		0.721				0.72	0.72	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant0	FR1 band (77/78) Ant5	Front	0.478	0.270	0.284	0.246	0.179	1.03	1.17	
		Back	0.751	0.270	0.571	0.597	0.302	1.59	1.92	22
		Left side	0.558	0.270				0.83	0.83	
		Right side	0.622	0.170	0.292	0.567	0.177	1.08	1.54	
		Top side		0.270	0.326	0.510	0.208	0.60	0.99	
		Bottom side	0.752					0.75	0.75	
LTE band (7/30) Ant1	FR1 band (2/5/25/66) Ant4	Front	0.671	0.278	0.284	0.246	0.179	1.23	1.37	
		Back	0.725	0.409	0.571	0.597	0.302	1.71	2.03	23
		Left side	0.630	0.217				0.85	0.85	
		Right side			0.292	0.567	0.177	0.29	0.74	
		Top side		0.576	0.326	0.510	0.208	0.90	1.29	
		Bottom side	0.671					0.67	0.67	
LTE band (48) Ant5	FR1 band (5/66/71) Ant0	Front	0.249	0.827	0.284	0.246	0.179	1.36	1.50	
		Back	0.316	1.211	0.571	0.597	0.302	2.10	2.43	24
		Left side	0.033	0.263				0.30	0.30	
		Right side	0.132	0.521	0.292	0.567	0.177	0.95	1.40	
		Top side	0.385		0.326	0.510	0.208	0.71	1.10	
		Bottom side		1.347				1.35	1.35	



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	SPLSR
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ANT0	Front	1.159	0.211	0.115	0.179	1.37	1.45	
	Back	1.376	0.433	0.381	0.302	1.81	2.06	9
ANT1	Front	0.841	0.211	0.115	0.179	1.05	1.14	
	Back	1.392	0.433	0.381	0.302	1.83	2.08	11
ANT2	Front	0.155	0.211	0.115	0.179	0.37	0.45	
	Back	0.900	0.433	0.381	0.302	1.33	1.58	
ANT4	Front	0.629	0.211	0.115	0.179	0.84	0.92	
	Back	0.907	0.433	0.381	0.302	1.34	1.59	
ANT5	Front	0.901	0.211	0.115	0.179	1.11	1.20	
	Back	0.905	0.433	0.381	0.302	1.34	1.59	
ANT7	Front	0.319	0.211	0.115	0.179	0.53	0.61	
	Back	0.840	0.433	0.381	0.302	1.27	1.52	
ANT8	Front	0.180	0.211	0.115	0.179	0.39	0.47	
	Back	0.890	0.433	0.381	0.302	1.32	1.57	

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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	SPLSR
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE All band(12/14/5) ANT0	LTE All band(30) ANT1	Front	0.609	0.385	0.211	0.115	0.179	1.21	1.29	
		Back	0.728	0.700	0.433	0.381	0.302	1.86	2.11	12
LTE All band(2/4/5/12/13/66) ANT0	LTE All band(2/4/5/12/13/66) ANT4	Front	0.584	0.519	0.211	0.115	0.179	1.31	1.40	
		Back	0.728	0.720	0.433	0.381	0.302	1.88	2.13	14
LTE All band(5/12/14) ANT4	LTE All band(30) ANT1	Front	0.350	0.385	0.211	0.115	0.179	0.95	1.03	
		Back	0.738	0.700	0.433	0.381	0.302	1.87	2.12	16

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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	SPLSR
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE band (2/5/12/14/26/66/71) Ant0	FR1 band (7/30/41) Ant1	Front	0.584	0.478	0.211	0.115	0.179	1.27	1.36	
		Back	0.728	0.723	0.433	0.381	0.302	1.88	2.13	17
LTE band (2/4/5/12/13/14/26/66/71) Ant0	FR1 band (2/5/12/25/66/71) Ant4	Front	0.584	0.536	0.211	0.115	0.179	1.33	1.41	
		Back	0.728	0.894	0.433	0.381	0.302	2.06	2.31	18
LTE band (2/4/5/12/13/14/26/66/71) Ant4	FR1 band (2/5/12/25/66/71) Ant0	Front	0.519	0.986	0.211	0.115	0.179	1.72	1.80	25
		Back	0.906	1.273	0.433	0.381	0.302	2.61	2.86	19
LTE band (2/5/12/13/14/7/25/30/66) Ant4	FR1 band (7/7/78) Ant5	Front	0.385	0.245	0.211	0.115	0.179	0.84	0.92	
		Back	0.457	0.447	0.433	0.381	0.302	1.34	1.59	
LTE band (48) Ant5	FR1 band (5/66/71) Ant4	Front	0.421	0.310	0.211	0.115	0.179	0.94	1.03	
		Back	0.449	0.454	0.433	0.381	0.302	1.34	1.59	
LTE band (7/30) Ant1	FR1 band (5/71) Ant0	Front	0.385	0.279	0.211	0.115	0.179	0.88	0.96	
		Back	0.715	0.706	0.433	0.381	0.302	1.85	2.10	20
LTE band (2/4/5/12/14/25/26/66/71) Ant4	FR1 band (7/30/41) Ant1	Front	0.519	0.478	0.211	0.115	0.179	1.21	1.29	
		Back	0.906	0.723	0.433	0.381	0.302	2.06	2.31	21
LTE band (2/4/5/12/13/14/25/26/66/71) Ant0	FR1 band (7/7/78) Ant5	Front	1.159	0.245	0.211	0.115	0.179	1.62	1.70	26
		Back	1.351	0.447	0.433	0.381	0.302	2.23	2.48	22
LTE band (7/30) Ant1	FR1 band (2/5/25/66) Ant4	Front	0.385	0.536	0.211	0.115	0.179	1.13	1.22	
		Back	0.715	0.894	0.433	0.381	0.302	2.04	2.29	23
LTE band (48) Ant5	FR1 band (5/66/71) Ant0	Front	0.421	0.986	0.211	0.115	0.179	1.62	1.70	27
		Back	0.449	1.273	0.433	0.381	0.302	2.16	2.41	24



Sensor off

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ANT0	Front	0.671	0.206	0.318	0.146	0.88	1.14
	Back	0.701	0.217	0.758	0.134	0.92	1.59
ANT1	Front	0.293	0.206	0.318	0.146	0.50	0.76
	Back	0.314	0.217	0.758	0.134	0.53	1.21
ANT2	Front	0.141	0.206	0.318	0.146	0.35	0.61
	Back	0.324	0.217	0.758	0.134	0.54	1.22
ANT4	Front	0.257	0.206	0.318	0.146	0.46	0.72
	Back	0.198	0.217	0.758	0.134	0.42	1.09
ANT5	Front	0.630	0.206	0.318	0.146	0.84	1.09
	Back	0.489	0.217	0.758	0.134	0.71	1.38
ANT7	Front	0.136	0.206	0.318	0.146	0.34	0.60
	Back	0.188	0.217	0.758	0.134	0.41	1.08
ANT8	Front	0.180	0.206	0.318	0.146	0.39	0.64
	Back	0.217	0.217	0.758	0.134	0.43	1.11

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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	SPLSR
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE All band(12/14/5) ANT0	LTE All band(30) ANT1	Front	0.294	0.149	0.206	0.318	0.146	0.65	0.91	
		Back	0.368	0.131	0.217	0.758	0.134	0.72	1.39	
LTE All band(2/4/5/12/13/66) ANT0	LTE All band(2/4/5/12/13/66) ANT4	Front	0.671	0.256	0.206	0.318	0.146	1.13	1.39	
		Back	0.701	0.195	0.217	0.758	0.134	1.11	1.79	38
LTE All band(5/12/14) ANT4	LTE All band(30) ANT1	Front	0.169	0.149	0.206	0.318	0.146	0.52	0.78	
		Back	0.181	0.131	0.217	0.758	0.134	0.53	1.20	



<ENDC>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	SPLSR
			WWAN	WWAN	WLAN2.4GHz	WLAN5GHz	Bluetooth	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	Ant 6	Ant 6	Ant 6	1g SAR (W/kg)	1g SAR (W/kg)	
LTE band (2/5/12/14/26/66/71) Ant0	FR1 band (7/30/41) Ant1	Front	0.671	0.281	0.206	0.318	0.146	1.16	1.42	
		Back	0.701	0.296	0.217	0.758	0.134	1.21	1.89	39
LTE band (2/4/5/12/13/14/26/66/71) Ant0	FR1 band (2/5/12/25/66/71) Ant4	Front	0.671	0.257	0.206	0.318	0.146	1.13	1.39	
		Back	0.701	0.198	0.217	0.758	0.134	1.12	1.79	40
LTE band (2/4/5/12/13/14/26/66/71) Ant4	FR1 band (2/5/12/25/66/71) Ant0	Front	0.256	0.490	0.206	0.318	0.146	0.95	1.21	
		Back	0.195	0.522	0.217	0.758	0.134	0.93	1.61	41
LTE band (2/5/12/13/14/7/25/30/66) Ant4	FR1 band (77/78) Ant5	Front	0.385	0.630	0.206	0.318	0.146	1.22	1.48	
		Back	0.195	0.489	0.217	0.758	0.134	0.90	1.58	
LTE band (48) Ant5	FR1 band (5/66/71) Ant4	Front	0.229	0.257	0.206	0.318	0.146	0.69	0.95	
		Back	0.187	0.198	0.217	0.758	0.134	0.60	1.28	
LTE band (7/30) Ant1	FR1 band (5/71) Ant0	Front	0.293	0.352	0.206	0.318	0.146	0.85	1.11	
		Back	0.314	0.413	0.217	0.758	0.134	0.94	1.62	42
LTE band (2/4/5/12/14/25/26/66/71) Ant4	FR1 band (7/30/41) Ant1	Front	0.256	0.281	0.206	0.318	0.146	0.74	1.00	
		Back	0.195	0.296	0.217	0.758	0.134	0.71	1.38	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant0	FR1 band (77/78) Ant5	Front	0.671	0.630	0.206	0.318	0.146	1.51	1.77	44
		Back	0.701	0.489	0.217	0.758	0.134	1.41	2.08	43
LTE band (7/30) Ant1	FR1 band (2/5/25/66) Ant4	Front	0.293	0.257	0.206	0.318	0.146	0.76	1.01	
		Back	0.314	0.198	0.217	0.758	0.134	0.73	1.40	
LTE band (48) Ant5	FR1 band (5/66/71) Ant0	Front	0.229	0.441	0.206	0.318	0.146	0.88	1.13	
		Back	0.187	0.403	0.217	0.758	0.134	0.81	1.48	

16.4 Product specific 10g SAR Exposure Conditions

Remark:

- For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	1+2+4	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	NFC	Summed	Summed	
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
ANT0	Front	2.867	0.455	0.475	0.001	3.32	3.34	
	Back	3.528	0.641	0.996	0.016	4.19	4.54	27
	Left side				0.001	0.00	0.00	
	Right side		0.420	0.996	0.001	0.42	1.00	
	Top side		0.973	0.996	0.001	0.97	1.00	
	Bottom side	3.583				3.58	3.58	
ANT1	Front	2.203	0.455	0.475	0.001	2.66	2.68	
	Back	3.296	0.641	0.996	0.016	3.95	4.31	28
	Left side	2.468			0.001	2.47	2.47	
	Right side		0.420	0.996	0.001	0.42	1.00	
	Top side		0.973	0.996	0.001	0.97	1.00	
	Bottom side	2.175				2.18	2.18	
ANT2	Front		0.455	0.475	0.001	0.46	0.48	
	Back	2.368	0.641	0.996	0.016	3.03	3.38	
	Left side				0.001	0.00	0.00	
	Right side		0.420	0.996	0.001	0.42	1.00	
	Top side		0.973	0.996	0.001	0.97	1.00	
	Bottom side					0.00	0.00	
ANT4	Front	1.406	0.455	0.475	0.001	1.86	1.88	
	Back	2.489	0.641	0.996	0.016	3.15	3.50	
	Left side	1.616			0.001	1.62	1.62	
	Right side		0.420	0.996	0.001	0.42	1.00	
	Top side	2.694	0.973	0.996	0.001	3.67	3.69	
	Bottom side					0.00	0.00	
ANT5	Front	2.026	0.455	0.475	0.001	2.48	2.50	
	Back	2.675	0.641	0.996	0.016	3.33	3.69	
	Left side				0.001	0.00	0.00	
	Right side		0.420	0.996	0.001	0.42	1.00	
	Top side	2.471	0.973	0.996	0.001	3.45	3.47	
	Bottom side					0.00	0.00	
ANT7	Front	0.963	0.455	0.475	0.001	1.42	1.44	
	Back	2.463	0.641	0.996	0.016	3.12	3.48	
	Left side				0.001	0.00	0.00	
	Right side	1.826	0.420	0.996	0.001	2.25	2.82	
	Top side		0.973	0.996	0.001	0.97	1.00	
	Bottom side					0.00	0.00	
ANT8	Front		0.455	0.475	0.001	0.46	0.48	
	Back	2.391	0.641	0.996	0.016	3.05	3.40	
	Left side				0.001	0.00	0.00	
	Right side	0.966	0.420	0.996	0.001	1.39	1.96	
	Top side		0.973	0.996	0.001	0.97	1.00	
	Bottom side					0.00	0.00	



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WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3+5	1+2+4+5	Case No
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	NFC	Summed	Summed	
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
LTE All band(12/14/5) ANT0	LTE All band(30) ANT1	Front			0.455	0.475	0.001	0.46	0.48	
		Back	1.748	1.775	0.641	0.996	0.016	4.18	4.54	29
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side			0.973	0.996	0.001	0.97	1.00	
		Bottom side	1.748					1.75	1.75	
LTE All band(2/4/5/12/13/66) ANT0	LTE All band(2/4/5/12/13/66) ANT4	Front	1.796		0.455	0.475	0.001	2.25	2.27	
		Back	1.796	1.658	0.641	0.996	0.016	4.11	4.47	30
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side		1.686	0.973	0.996	0.001	2.66	2.68	
		Bottom side	1.796					1.80	1.80	
LTE All band(5/12/14) ANT4	LTE All band(30) ANT1	Front			0.455	0.475	0.001	0.46	0.48	
		Back		1.775	0.641	0.996	0.016	2.43	2.79	
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side			0.973	0.996	0.001	0.97	1.00	
		Bottom side						0.00	0.00	

<ENDC>

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3+5	1+2+4+5	Case No
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	NFC	Summed	Summed	
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
LTE band (2/5/12/14/26/66/71) Ant0	FR1 band (7/30/41) Ant1	Front	1.774	1.743	0.455	0.475	0.001	3.97	3.99	
		Back	1.774	1.743	0.641	0.996	0.016	4.17	4.53	31
		Left side		1.743			0.001	1.74	1.74	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side			0.973	0.996	0.001	0.97	1.00	
		Bottom side	1.774	1.743				3.52	3.52	
LTE band (2/4/5/12/13/14/26/66/71) Ant0	FR1 band (2/5/12/25/66/71) Ant4	Front	1.796		0.455	0.475	0.001	2.25	2.27	
		Back	1.796	1.248	0.641	0.996	0.016	3.70	4.06	32
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side		2.361	0.973	0.996	0.001	3.34	3.36	
		Bottom side	1.796					1.80	1.80	
LTE band (2/4/5/12/13/14/26/66/71) Ant4	FR1 band (2/5/12/25/66/71) Ant0	Front		2.427	0.455	0.475	0.001	2.88	2.90	
		Back	1.378	2.690	0.641	0.996	0.016	4.73	5.08	33
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side	1.378		0.973	0.996	0.001	2.35	2.38	
		Bottom side		3.333				3.33	3.33	
LTE band (2/5/12/13/14/7/25/30/66) Ant4	FR1 band (77/78) Ant5	Front	1.471	1.462	0.455	0.475	0.001	3.39	3.41	
		Back	1.471	1.462	0.641	0.996	0.016	3.59	3.95	
		Left side	1.471				0.001	1.47	1.47	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side	1.471	1.462	0.973	0.996	0.001	3.91	3.93	
		Bottom side						0.00	0.00	
LTE band (48) Ant5	FR1 band (5/66/71) Ant4	Front			0.455	0.475	0.001	0.46	0.48	
		Back	1.399	1.400	0.641	0.996	0.016	3.46	3.81	
		Left side					0.001	0.00	0.00	



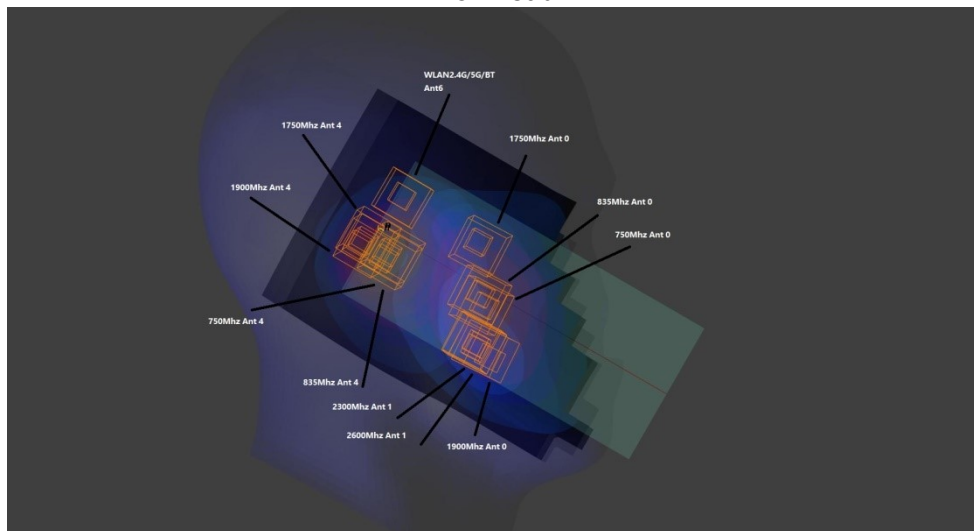
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side	1.399	1.400	0.973	0.996	0.001	3.77	3.80	
		Bottom side						0.00	0.00	
LTE band (7/30) Ant1	FR1 band (5/71) Ant0	Front			0.455	0.475	0.001	0.46	0.48	
		Back	1.775	1.115	0.641	0.996	0.016	3.55	3.90	
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side			0.973	0.996	0.001	0.97	1.00	
		Bottom side		1.350				1.35	1.35	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant4	FR1 band (7/30/41) Ant1	Front		1.743	0.455	0.475	0.001	2.20	2.22	
		Back	1.378	1.743	0.641	0.996	0.016	3.78	4.13	34
		Left side		1.743			0.001	1.74	1.74	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side	1.378		0.973	0.996	0.001	2.35	2.38	
		Bottom side		1.743				1.74	1.74	
LTE band (2/4/5/12/13/14/25/26/66/71) Ant0	FR1 band (77/78) Ant5	Front	1.796	1.462	0.455	0.475	0.001	3.71	3.73	
		Back	1.796	1.462	0.641	0.996	0.016	3.92	4.27	35
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side		1.462	0.973	0.996	0.001	2.44	2.46	
		Bottom side	1.796					1.80	1.80	
LTE band (7/30) Ant1	FR1 band (2/5/25/66) Ant4	Front			0.455	0.475	0.001	0.46	0.48	
		Back	1.775	1.248	0.641	0.996	0.016	3.68	4.04	36
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side		2.361	0.973	0.996	0.001	3.34	3.36	
		Bottom side						0.00	0.00	
LTE band (48) Ant5	FR1 band (5/66/71) Ant0	Front		2.296	0.455	0.475	0.001	2.75	2.77	
		Back	1.399	2.690	0.641	0.996	0.016	4.75	5.10	37
		Left side					0.001	0.00	0.00	
		Right side			0.420	0.996	0.001	0.42	1.00	
		Top side	1.399		0.973	0.996	0.001	2.37	2.40	
		Bottom side		3.333				3.33	3.33	

16.5 SPLSR Evaluation and Analysis

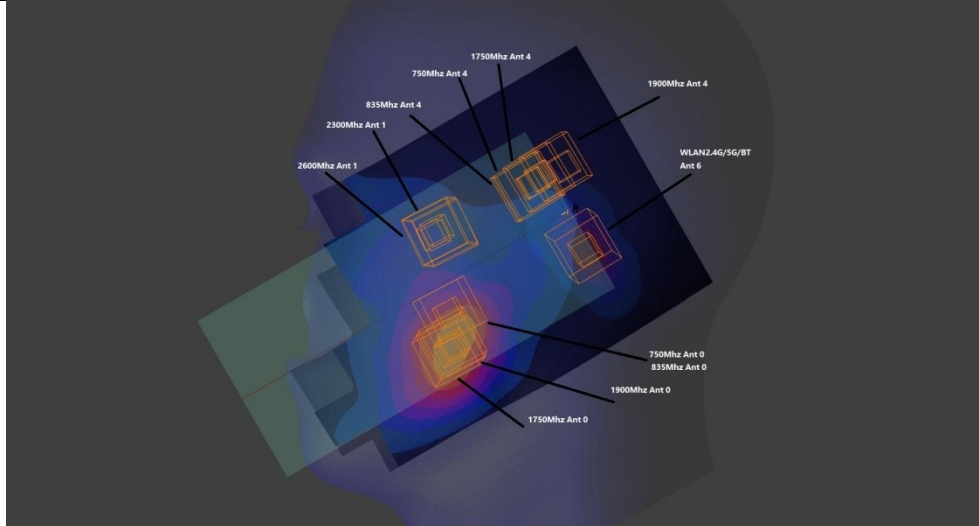
General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
4. Per April 2022 TCB Workshop Notes, WWAN band antenna 4/5 was summed algebraically with the NFC and one or more of BT/WIFI Antenna 6 separately for the purposes of hybrid SPLSR combination and they are located at the top of the device. And WWAN band antenna 0 was summed algebraically with WWAN band antenna 1 separately for the purposes of hybrid SPLSR combination and they are located at the bottom of the device.
5. Obtain the highest reported multi-band SAR out of all supported technologies/bands per antenna per exposure position in section 16, so determine the highest reported multi-band SAR per tech/band/antenna /exposure position of the co-located antenna pair to be conservative.
6. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
7. To do SPLSR analysis conservatively by selecting the maximum SAR at the same position and minimum distance at each RF exposure condition. For example, case No. 9 at hotspot, WWAN + WLAN2.4GHz and WWAN + WLAN5GHz + BT, selected the maximum SAR value, and the minimum 3D distance between the spatially separated antenna and the closest antenna of the co-located antenna pair. Therefore, case No. 9 SPLSR analysis is more conservatively.

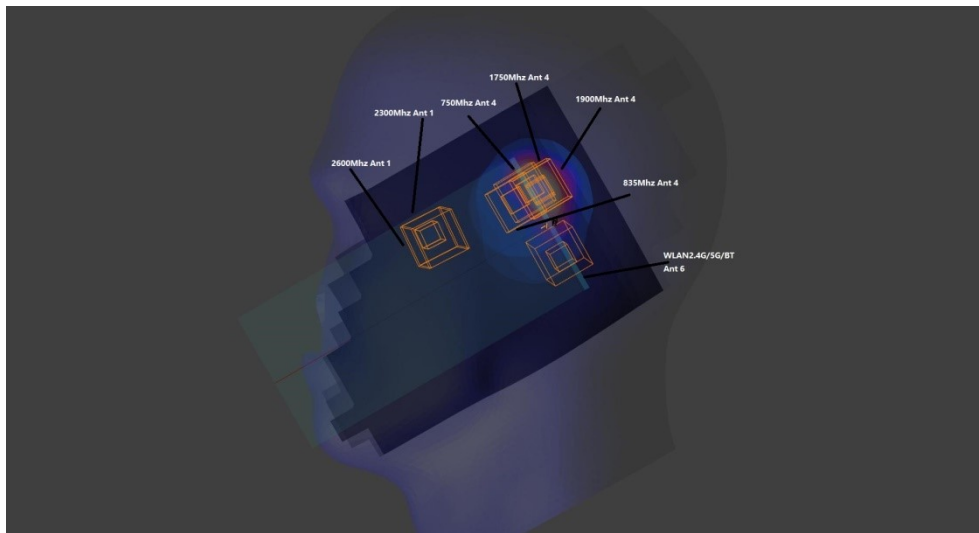
For Head



Left Cheek 0mm WWAN+WIFI(BT)

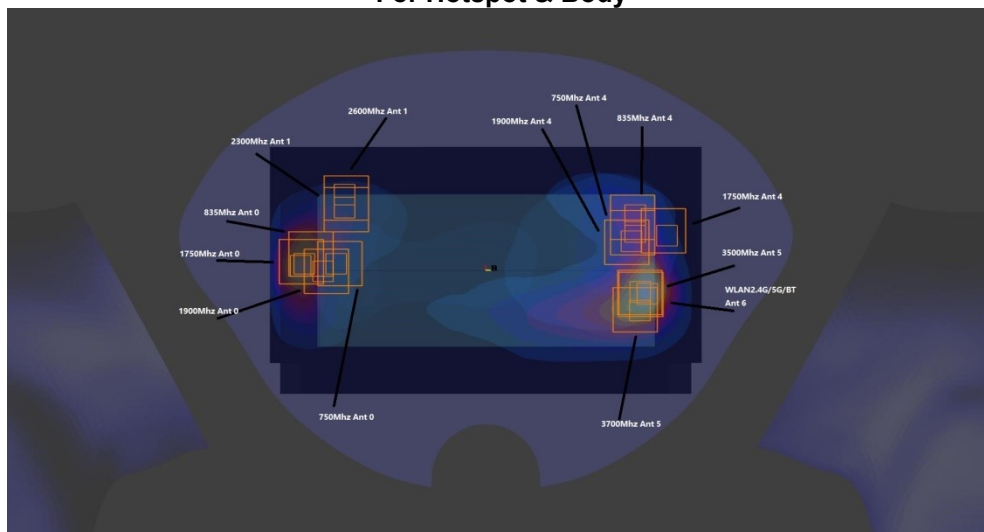


Right Cheek 0mm WWAN+WIFI(BT)

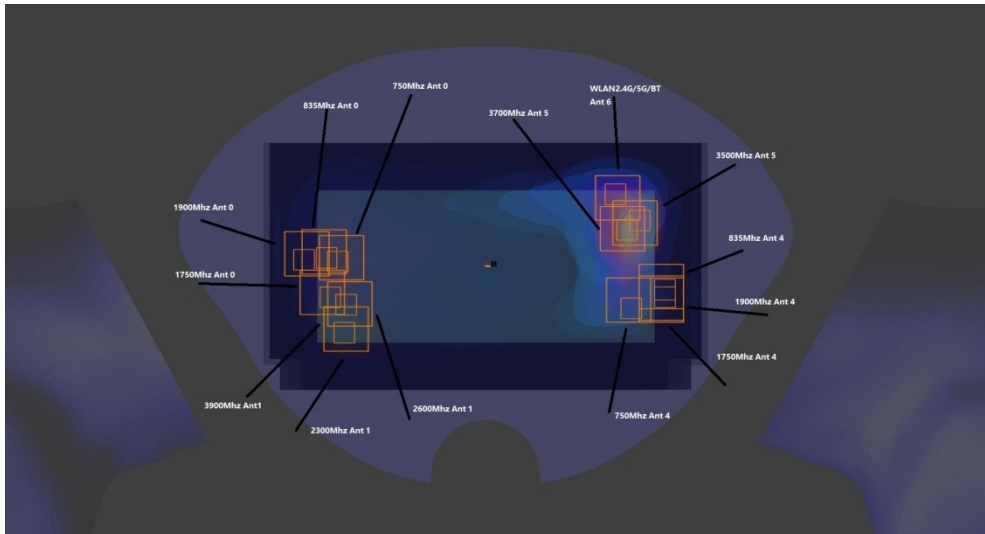


Right Tilted 0mm WWAN+WIFI(BT)

For Hotspot & Body

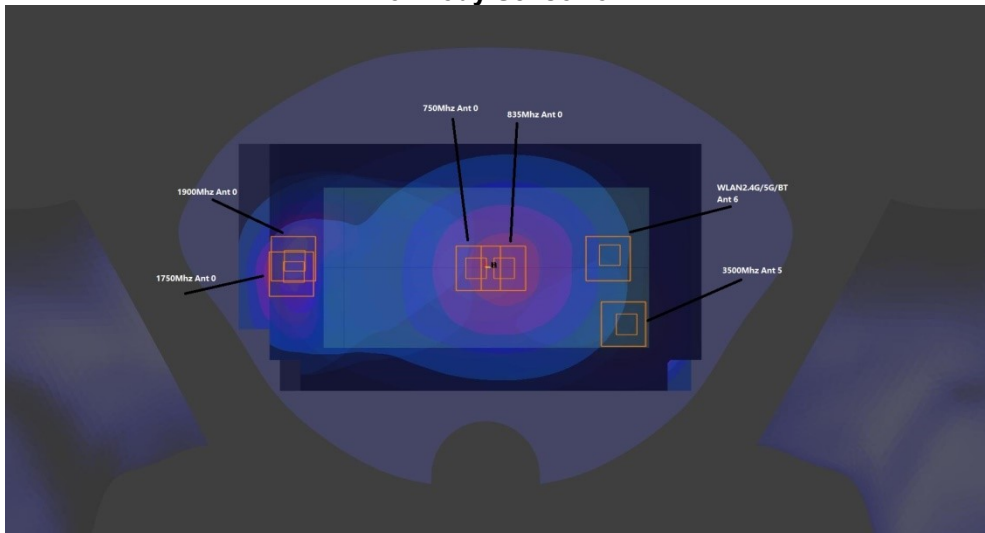


Front 5mm WWAN+WIFI(BT)

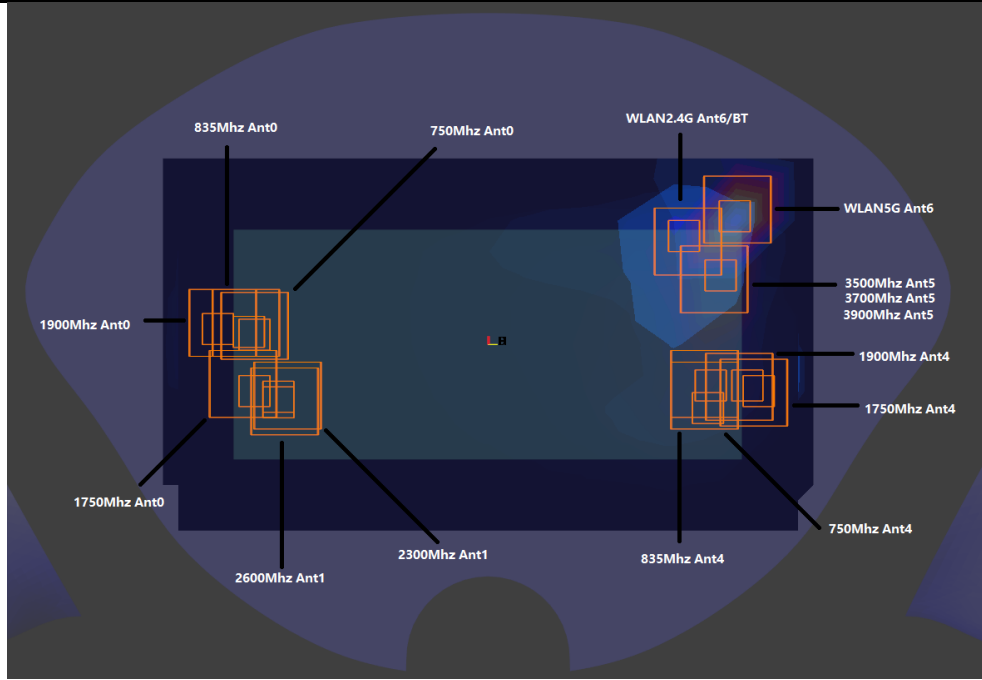


Back 5mm WWAN+WIFI(BT)

For Body Sensor-off

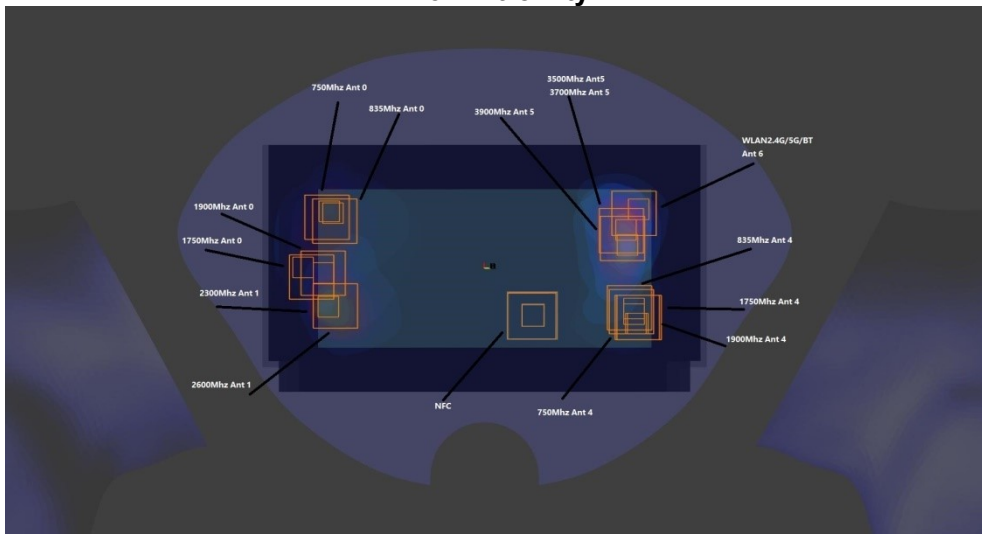


Front 17mm WWAN+WIFI(BT)



Back 21mm WWAN+WIFI(BT)

For Extremity



Back 0mm WWAN+WIFI(BT)

For Head

No.1	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Right Cheek	0mm	55.1	-266.7	-173.3	55.4	1.65	0.04	Not required
		0mm	7.4	-294.7	-170.2				
No.2	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Right Cheek	0mm	20.4	-321.4	-172.8	61.0	1.69	0.04	Not required
		0mm	67.1	-282.1	-173.4				

No.3	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Right Tilted	0mm	22.5	-321.9	-171.8	78.5	1.64	0.03	Not required
		0mm	84.3	-273.5	-172.3				

No.4	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Left Cheek	0mm	52.2	265.8	-172.6	61.2	1.74	0.04	Not required
		0mm	27.6	321.8	-172.1				

No.5	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Left Cheek	0mm	14.9	306.9	-169.6	55.6	1.68	0.04	Not required
		0mm	52.2	265.8	-172.6				

No.6	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Left Cheek	0mm	14.9	306.9	-169.6	70.8	1.97	0.04	Not required
		0mm	56.8	249.9	-171.9				

No.7	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Left Cheek	0mm	56.8	249.9	-171.9	70.8	1.69	0.03	Not required
		0mm	14.9	306.9	-169.6				

For Hotspot

No.9	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-25.5	-71	-204	134.2	2.26	0.03	Not required
		5mm	-46.5	61.5	-204				

No.11	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-6.5	-67.5	-204	135.1	2.29	0.03	Not required
		5mm	-46.5	61.5	-204				

No.12	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.27	0.03	Not required
		5mm	-46.5	61.5	-204				

No.14	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.34	0.03	Not required
		5mm	-46.5	61.5	-204				

No.16	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-7	-68	-204	135.4	2.20	0.02	Not required
		5mm	-46.5	61.5	-204				



No.	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
No.17	Back	5mm	-24.5	-70.5	-204	133.8	2.34	0.03	Not required
		5mm	-46.5	61.5	-204				
No.18	Back	5mm	-24.5	-70.5	-204	133.8	2.29	0.03	Not required
		5mm	-46.5	61.5	-204				
No.19	Back	5mm	-24.5	-70.5	-204	133.8	2.80	0.04	Not required
		5mm	-46.5	61.5	-204				
No.20	Back	5mm	-24.5	-70.5	-204	133.8	2.34	0.03	Not required
		5mm	-46.5	61.5	-204				
No.21	Back	5mm	-3.5	70	-204	136.5	2.31	0.03	Not required
		5mm	-7	-66.5	-204				
No.22	Back	5mm	-24.5	-70.5	-204	133.8	1.92	0.02	Not required
		5mm	-46.5	61.5	-204				
No.23	Back	5mm	-7	-66.5	-204	134.0	2.03	0.02	Not required
		5mm	-46.5	61.5	-204				
No.24	Back	5mm	-24.5	-70.5	-204	133.8	2.43	0.03	Not required
		5mm	-46.5	61.5	-204				
No.25	Front	5mm	-40	70.5	-204	144.3	1.69	0.02	Not required
		5mm	-24.5	-73	-204				
No.26	Front	5mm	-16	-68	-204	144.0	1.71	0.02	Not required
		5mm	-4.5	75.5	-204				



For Body

No.9	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-25.5	-71	-204	134.2	2.06	0.02	Not required
		5mm	-46.5	61.5	-204				
No.11	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-6.5	-67.5	-204	135.1	2.08	0.02	Not required
		5mm	-46.5	61.5	-204				
No.12	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.11	0.02	Not required
		5mm	-46.5	61.5	-204				
No.14	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.13	0.02	Not required
		5mm	-46.5	61.5	-204				
No.16	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-7	-68	-204	135.4	2.12	0.02	Not required
		5mm	-46.5	61.5	-204				
No.17	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.13	0.02	Not required
		5mm	-46.5	61.5	-204				
No.18	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.31	0.03	Not required
		5mm	-46.5	61.5	-204				
No.19	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.86	0.04	Not required
		5mm	-46.5	61.5	-204				
No.20	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.10	0.02	Not required
		5mm	-46.5	61.5	-204				
No.21	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-7	-68	-204	135.4	2.31	0.03	Not required
		5mm	-46.5	61.5	-204				
No.22	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.48	0.03	Not required
		5mm	-46.5	61.5	-204				
No.23	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-7	-68	-204	135.4	2.29	0.03	Not required
		5mm	-46.5	61.5	-204				
No.24	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
	Back	5mm	-26.5	-72	-204	135.0	2.41	0.03	Not required
		5mm	-46.5	61.5	-204				



No.25	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Front	5mm	-40				
	5mm	-26.5	-72	-204					

No.26	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Front	5mm	-26.5				
	5mm	-14.2	74.4	-204					

No.27	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Front	5mm	-14.2				
	5mm	-26.5	-72	-204					

For Body Sensor-off

No.38	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.39	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.40	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.41	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.42	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.43	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	21mm	-25				
	21mm	9	60	-204					

No.44	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Front	17mm	-22				
	17mm	-32	60	-204					



For Extremity

No.27	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-14.5				
	0mm	19	50	-204					

No.29	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-6				
	0mm	19	50	-204					

No.31	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-6				
	0mm	19	50	-204					

No.32	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-23.5				
	0mm	19	50	-204					

No.33	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-23.5				
	0mm	19	50	-204					

No.34	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-6				
	0mm	19	50	-204					

No.35	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-23.5				
	0mm	19	50	-204					

No.36	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-6				
	0mm	19	50	-204					

No.37	Position	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
			Back	0mm	-23.5				
	0mm	19	50	-204					

17. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 2/4/5/12/13/14/17/25/26/66/71, and 5G NR n2/n5/n12/n25/n26/n66/n70/ n71 for ANT0.
2. LTE B17 / B5 / B4 / B2 SAR test was covered by LTE B12 / B26 / B66 / B25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. 5G NR n2/ n5 SAR test was covered by 5G NR n25/ n26; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
4. Per 2019, April TCBC Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
 - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
 - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
 - 3) The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
 - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
 - 5) If any single point SAR measurement result is > 1.2 W/kg for 1gSAR (or > 3.0 W/kg for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
5. The above test procedures were followed to demonstrate that the SAR results in Section 15 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
6. To evaluate all of the tuner states, the 144 tuner states for ANT0 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 10g SAR was > 3.0 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all 144 tuner states.
7. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
8. According to KDB 648474 D04 v01r03, this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
9. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

17.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

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18. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

19. References

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, “SAR Measurement Requirements for 100 MHz to 6 GHz”, Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [10] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [11] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [12] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [13] FCC KDB 941225 D06 v02r01, “SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities”, Oct 2015.
- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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